



REVISED ANADROMOUS STREAM CATALOG OF
SOUTHEASTERN ALASKA

Appendix A - District 1

Volume II

Eastern Behm Canal Area Survey Data

By:
John Edgington
and
Robert Larson

1977

ADF&G TECHNICAL DATA REPORTS

This series of reports is designed to facilitate prompt reporting of data from studies conducted by the Alaska Department of Fish and Game, especially studies which may be of direct and immediate interest to scientists of other agencies.

The primary purpose of these reports is presentation of data. Description of programs and data collection methods is included only to the extent required for interpretation of the data. Analysis is generally limited to that necessary for clarification of data collection methods and interpretation of the basic data. No attempt is made in these reports to present analysis of the data relative to its ultimate or intended use.

Data presented in these reports is intended to be final, however, some revisions may occasionally be necessary. Minor revision will be made via errata sheets. Major revisions will be made in the form of revised reports.

REVISED ANADROMOUS STREAM CATALOG OF
SOUTHEASTERN ALASKA

By

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Alaska Department of Fish and Game
Division of Commercial Fisheries
Ketchikan, Alaska

1977

Appendix A - District 1

Volume II

Eastern Behm Canal Area Survey Data

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CROSS INDEX OF STREAM NUMBERS

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SUMMARY STREAM EVALUATIONS

STREAM NAME & NUMBER	AVERAGE WIDTH	LENGTH	FT ²	M ²	PERCENT SPAWNING AREA	SPAWNING AREA - M ²
101-41-30	14	2,000	28,000	2,601	40	1,040
101-41-33	LIMITED SPAWNING/REARING					
101-41-35 Alava Creek	35	5,000	175,000	16,258	60	9,755
101-51-03 Edith Pt. Creek	16	150	2,400	223	90	200
101-51-04 Checats Cove	4	100	400	37	20	7
101-51-06 Checats	60	3,500	210,000	19,509	20	3,902
101-51-10 Winstanley	60	600	36,000	3,344	35	1,171
101-51-12	LIMITED SPAWNING/REARING					
101-51-13	15	4,000	60,000	5,574	65	3,623
101-51-17	38	300	11,400	1,059	15	159
101-51-20	LIMITED SPAWNING/REARING					
101-51-25 Big Notch Creek	15	2,100	31,500	2,926	25	732
101-51-32 Cannery Creek	43	1,500	64,500	5,992	20	1,198
101-51-34 Piles Creek	15	600	9,000	836	15	125
101-51-36	LIMITED SPAWNING/REARING					
101-51-38 Island Creek	22	600	13,200	1,226	20	245
101-51-40	LIMITED SPAWNING/REARING					
101-51-46	8	2,640	21,120	1,962	70	1,373

SUMMARY STREAM EVALUATIONS

STREAM NAME & NUMBER	AVERAGE WIDTH	LENGTH	FT ²	M ²	PERCENT SPAWNING AREA	SPAWNING AREA - M ²
101-51-48	LIMITED SPAWNING/REARING					
101-51-50 Wolf Creek	24	7,920	190,080	17,658	70	12,361
101-51-54	8	3,960	31,680	2,943	75	2,207
101-51-56	25	6,600	165,000	15,329	50	7,664
101-51-58	18	1,980	35,640	3,311	40	1,324
101-51-59	9	300	2,700	250	60	150
101-51-61	12	3,564	42,768	3,973	50	1,987
101-51-67 Narrow Pass Creek	40	1,320	52,800	4,905	85	4,169
101-51-70	LIMITED SPAWNING/REARING					
101-51-73	15	3,300	49,500	4,599	55	2,529
101-51-76	20	1,320	26,400	2,453	40	981
101-51-78	30	3,900	117,000	10,869	50	3,435
101-51-81	LIMITED SPAWNING/REARING					
101-51-82	12	660	7,920	7,361	40	294
101-51-84	LIMITED SPAWNING/REARING					
101-51-85	LIMITED SPAWNING/REARING					
101-51-87	18	1,320	23,760	2,207	30	662
101-51-90 Ella Creek	50	500	25,000	2,322	60	1,394
101-51-93	LIMITED SPAWNING/REARING					
101-51-95 Sergeant Bay	LIMITED SPAWNING/REARING					
101-51-97	15	900	13,500	1,254	15	4,369
L.Hd. Sergeant B.	40	1,500	60,000	5,574	75	
					TOTAL	4,369
TOTAL 101-51						56,261

SUMMARY STREAM EVALUATIONS

STREAM NAME & NUMBER	AVERAGE WIDTH	LENGTH	FT ²	M ²	PERCENT SPAWNING AREA	SPAWNING AREA - M ²
101-55-09 Cabin Creek (Bartholomew)	45	5,280	237,600	22,073	70	15,451
101-55-20 Wilson River						
upstream	110	23,000	2,530,000	235,037	80	188,000
intertidal	250	5,000	1,250,000	116,125	50	58,000
					TOTAL	246,000
101-55-40 Blossom River	120	47,520	5,702,400	529,753	65	344,000
101-55-50 Wolverine Creek	35	3,960	138,600	12,876	30	3,863
101-55-55	LIMITED SPAWNING/REARING					
101-55-60 Bakewell Arm L. Head	45	6,500	292,500	27,173	60	16,304
101-55-65 Bakewell Arm Hd.	15	150	2,250	209	10	21
101-55-70 Bakewell Arm R. Head	LIMITED SPAWNING/REARING					
101-55-73 Bakewell River	75	1,056	79,200	7,358	5	368
101-55-76	LIMITED SPAWNING/REARING					
101-55-79 Heavy Creek	25	300	7,500	697	15	105
101-55-81	LIMITED SPAWNING/REARING					
101-55-83 Red Creek	43	1,800	77,400	7,190	15	1,079
101-55-87 Skull Creek	50	3,000	150,000	13,935	40	5,574
101-55-90	LIMITED SPAWNING/REARING					
101-55-95 Carp Creek	60	1,500	90,000	8,361	30	2,508
TOTAL 101-55						635,273

SUMMARY STREAM EVALUATIONS

STREAM NAME & NUMBER	AVERAGE WIDTH	LENGTH	FT ²	M ²	PERCENT SPAWNING AREA	SPAWNING AREA - M ²
101-60-09	40	1,320	52,800	4,905	15	736
Nooya Creek	40	1,320	52,800	4,905	25	1,226
					TOTAL	1,962
101-60-15	90	2,500	225,000	20,903	15	
Rudyerd River	75	1,500	1,125,000	10,451	40	
					TOTAL	7,316
101-60-20	25	1,000	25,000	2,323	75	
Sandpiper Creek	25	2,000	50,000	4,645	35	
					TOTAL	3,368
101-60-25	50	3,960	198,000	18,394	20	3,679
Boulder Creek						
101-60-30	70	600	42,000	3,902	60	
Big Goat Creek	50	1,500	75,000	6,968	60	
	50	2,500	125,000	11,613	25	
					TOTAL	9,425
101-60-35	LIMITED SPAWNING/REARING					
101-60-40	LIMITED SPAWNING/REARING					
101-60-43	LIMITED SPAWNING/REARING					
Rudyerd Bay						
101-60-48	LIMITED SPAWNING/REARING					
101-60-53	LIMITED SPAWNING/REARING					
					TOTAL 101-60	25,750
101-71-04B	78	400	31,200	2,898	60	1,739
LuDuc Lake Creek						
101-71-04F	35	2,500	87,500	8,129	50	4,064
Butler Creek						
101-71-04G	40	5,000	200,000	18,580	35	6,503
Andrews Creek						
101-71-04K	50	5,000	250,000	23,225	50	11,613
Indian Creek						
101-71-04Q	60	7,500	450,000	41,805	40	16,722
Barrier Creek						
101-71-06	30	500	15,000	1,394	70	975
Clear Creek						

SUMMARY STREAM EVALUATIONS

STREAM NAME & NUMBER	AVERAGE WIDTH	LENGTH	FT ²	M ²	PERCENT SPAWNING AREA	SPAWNING AREA - M ²
101-71-08 Humpy Creek	39	8,000	312,000	28,985	65	18,840
101-71-14 King Creek	50	26,400	1,320,000	122,628	40	49,051
101-71-16 Choca Creek	37	7,500	277,500	25,780	60	15,468
101-71-20	LIMITED SPAWNING/REARING					
101-71-25 Walker Head	15	4,224	63,360	5,886	60	3,532
101-71-26 Walker Creek	25	3,500	87,500	8,129	30	2,439
101-71-28	70	4,000	28,000	26,012	60	15,607
101-71-35	20	1,275	25,500	2,369	90	2,132
101-71-43	100	1,320	132,000	12,263	5	613
	140	600	84,000	7,804	30	2,341
					TOTAL	2,954
101-71-44 Cutbank Creek	25	900	22,500	2,090	15	314
101-71-45 NE hd. Manzanita Bay	LIMITED SPAWNING/REARING					
101-71-50	50	850	42,500	3,948	60	
Grace Creek	45	1,700	76,500	7,107	85	
					TOTAL	8,410
101-71-57	LIMITED SPAWNING/REARING					
101-71-59 Gorge Creek	50	900	45,000	4,181	20	836
101-71-63	120	5,000	600,000	55,740	50	27,870
Portage	100	7,500	750,000	69,675	70	48,770
	80	1,500	120,000	11,148	40	4,460
	35	5,000	175,000	16,258	60	9,750
					TOTAL	90,850
101-71-68 Slide Creek	15	1,200	18,000	1,672	15	251
TOTAL 101-71						252,300

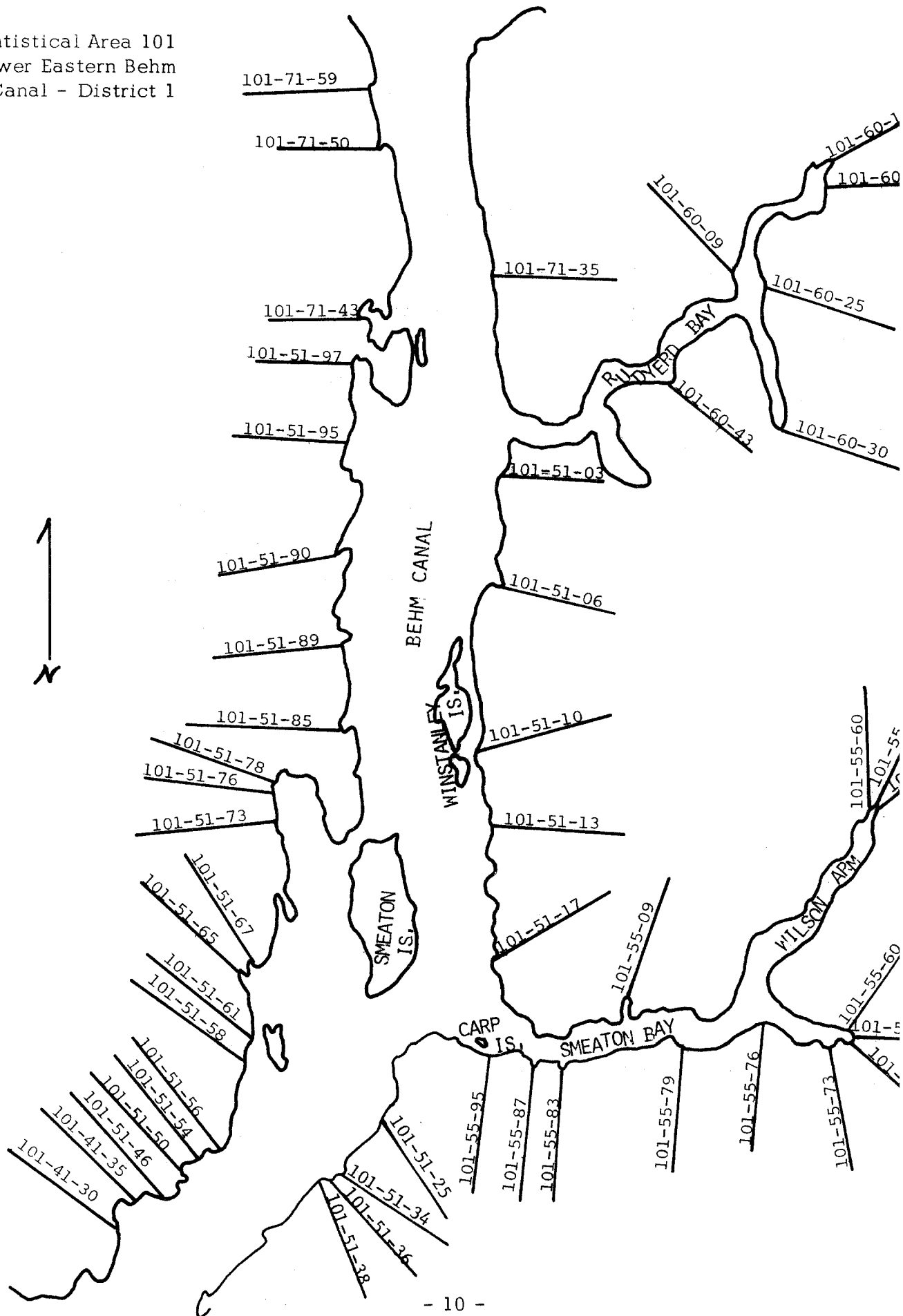
SUMMARY STREAM EVALUATIONS

STREAM NAME & NUMBER	AVERAGE WIDTH	LENGTH	FT ²	M ²	PERCENT SPAWNING AREA	SPAWNING AREA - M ²
101-75-01	10	300	3,000	279	5	
Cliff Creek	36	100	3,600	334	40	
					TOTAL	148
101-75-05	45	10,500	472,500	43,895	65	28,500
Herman Creek						
101-75-10	150	26,400	3,960,000	367,884	50	183,900
Grant Creek						
101-75-15	45	5,500	247,500	22,993	80	
Eulachon River	40	10,000	400,000	37,160	35	
					TOTAL	31,400
101-75-17						
Clear Creek (lower)	40	1,200	48,000	4,459	35	1,561
101-75-30						
Unuk River						
101-75-30D	23	2,500	57,500	5,342	25	1,355
Kerr Creek						
101-75-30G	25	400	10,000	929	65	604
Sawmill Creek						
101-75-30M	20	1,350	27,000	2,508	35	878
Beaver Dam Creek						
101-75-30N	19	1,000	19,000	1,765	35	618
Cottonwood Creek						
101-75-30Q	25	5,000	125,000	11,613	50	5,806
Cripple Creek						
101-75-30R	30	7,500	225,000	20,903	45	9,406
Gene's Lake Creek						
101-75-30T	45	400	18,000	1,672	70	
Lake Creek	45	2,500	112,500	10,451	20	
					TOTAL	3,261
101-75-30U	26	4,224	109,824	10,203	60	6,122
Kingsbury Creek						
101-75-50	50	15,000	750,000	69,675	45	31,354
Klahini River						
101-75-69&70	8	600	4,800	446	5	22
Fitsgibbon Cove Hd.	10	1,200	12,000	1,115	10	111
					TOTAL	133

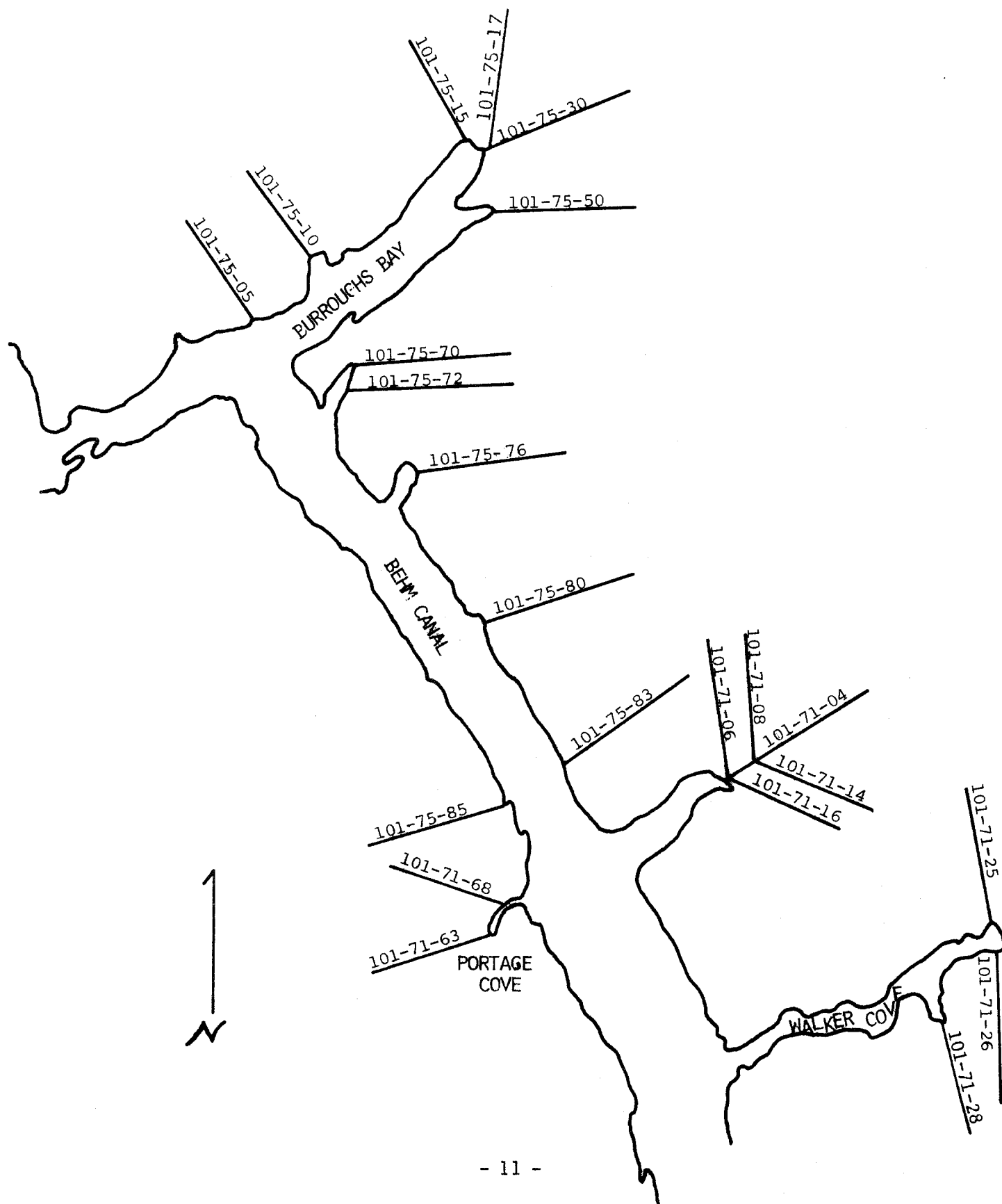
SUMMARY STREAM EVALUATIONS

STREAM NAME & NUMBER	AVERAGE WIDTH	LENGTH	FT ²	M ²	PERCENT SPAWNING AREA	SPAWNING AREA - M ²
101-75-72 Fitsgibbon Cove	20	900	18,000	1,672	10	167
101-75-76 Saks Creek	75	2,500	187,500	17,419	60	10,451
101-75-80 Robinson Creek	70	4,500	315,000	29,264	60	17,560
101-75-83 Hat Creek	10	210	2,100	195	25	49
101-75-85	40	750	30,000	2,787	15	<u>418</u>
TOTAL 101-75						333,671

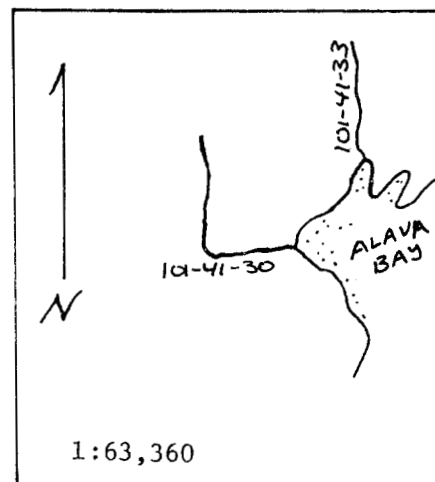
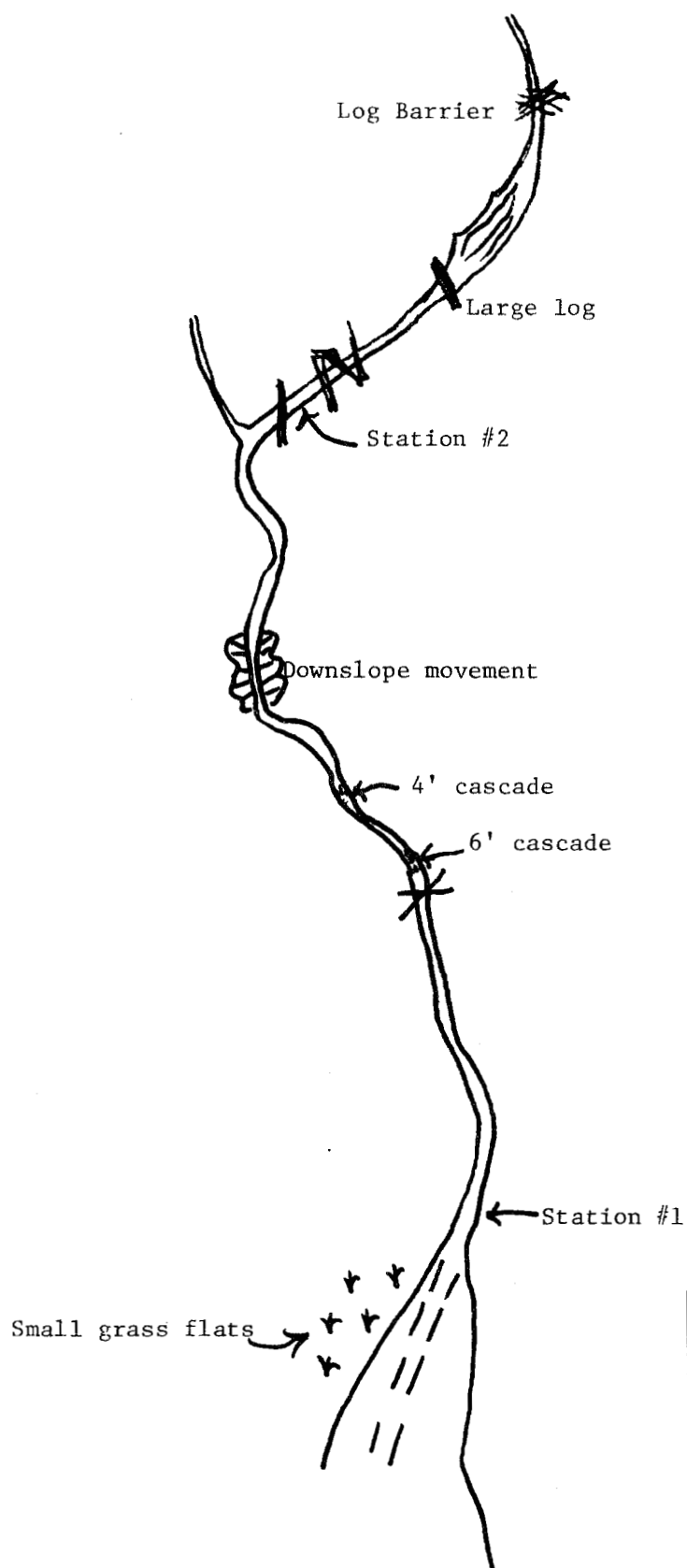
Statistical Area 101
Lower Eastern Behm
Canal - District 1



Statistical Area 101
Upper Eastern Behm Canal - District 1



101-41-30
8-7-73
Dinneford - Joyner



Name _____ Catalog No. 101-41-30
Latitude N 55° 13' 33" WR No. _____
Longitude W 131° 09' 13" K No. _____
Geodetic Map No. Ketchikan A -4 Work Area Ketchikan
Location W. End of Alava Bay Watershed Length 2 miles
Drainage Area of Watershed _____
Water Supply Type Precipitation

Trails & Survey Routes Walking along stream not bad despite high amount of algae.

Aerial Survey Notes Impossible to see from air.

Anchorage Little protection from weather but bay is relatively deep here.

Tide Stage When Surveyed 1st half of flood.

FISHERY RESOURCES

Commercial Fisheries Coho and limited pink.

Escapement Spawning area 1040 m² (2000'x14'x40% ASA)

Species Composition Unknown

Timing Unknown

Schooling areas None

Shellfish Potential None

Sport Fisheries Cutthroat and Dolly Varden seen in stream.

Land Use at Present None

History of Land Use None

Rehabilitation Potential Barrier log jam 1/2 mile upstream. 6' cascade 200 yds upstream.

Soils Some disturbance but mostly intact; a few trees down in upper area.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	1
	1 bear at I.T.	
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	0
	Estimate depth out from beach	0
	Eel grass present on what percent of flats	0

STREAM INVENTORY FORM

Observers: Dinneford, Joyner

Date: 8-7-73

Temperature: 64°

Weather: Sunny, windy

Name: _____

Number: 101-41-30

Station No.

Pool Size/Type

Riffle Type
Width-Depth

Pool Riffle
Frequency

Bottom Type
(Riffle)

Color/Turbidity

Velocity

Flow (C.F.S.)

Temp. (°F.)

pH

Fry Abundance

Benthos
Sample No.

Higher Plant
Class

Aquatic Veg.
Density

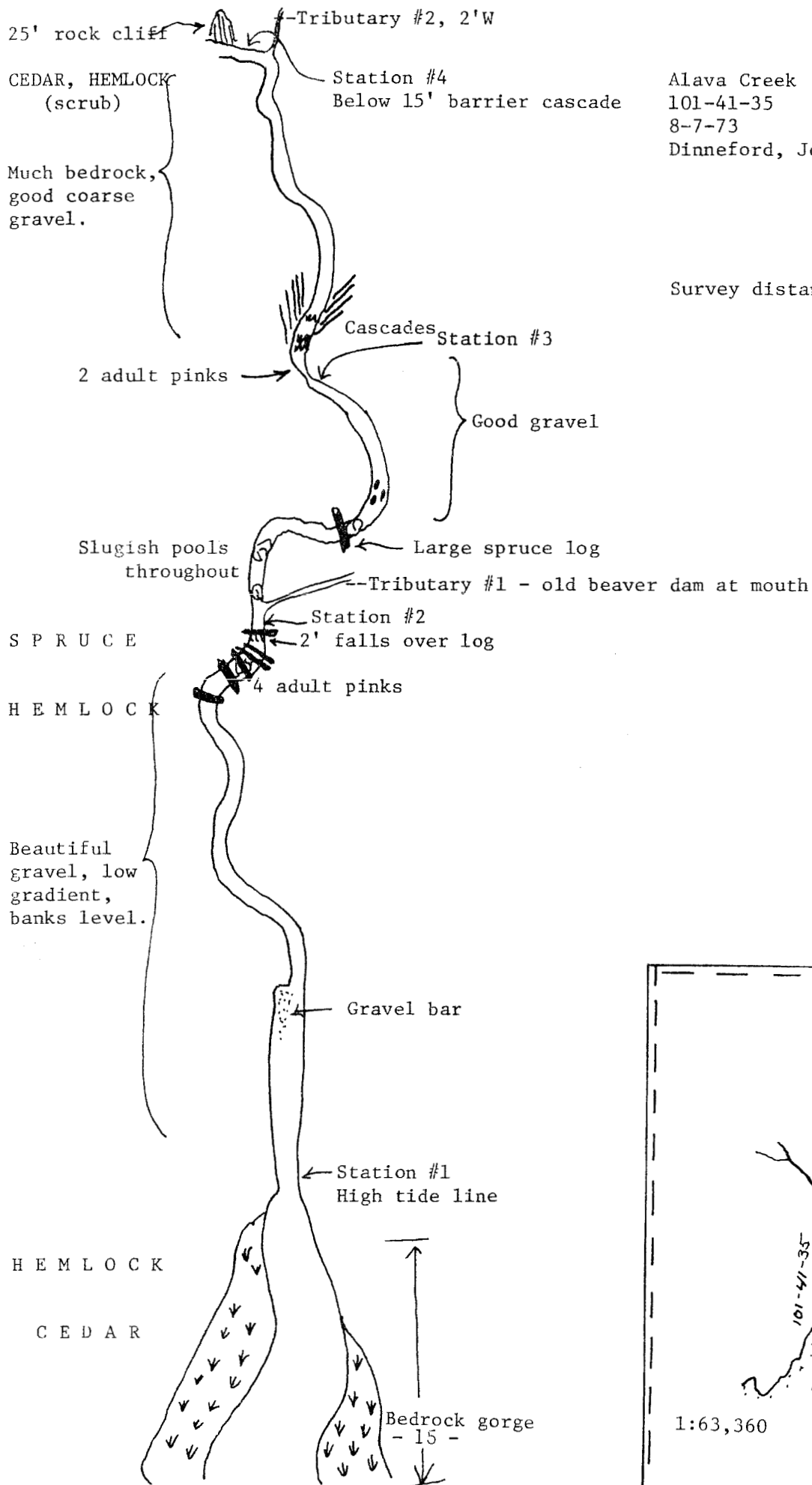
Ident.

(1) Mosses

(2) Algae

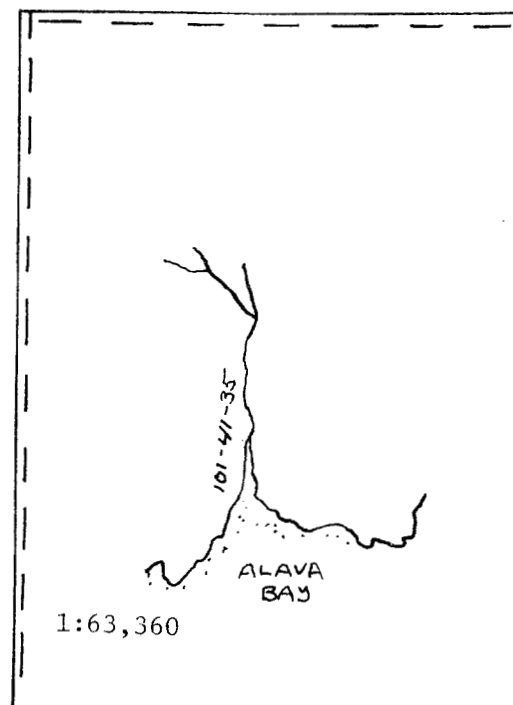
	(1/4 mi)														
1	2														
3/3	3/2														
17'W 6"D	12'W 5"D														
3	2														
4/6	4/6														
1/1	2/1														
2	2														
6.7															
54°	54°														
6	6														
1-1 2-7 4-1	2-7 4-1														
1	0														
2/3	2/1/3														
2	3														
2	2														

General Remarks (rehab., land use, barriers, log jams, etc.): Log jam barrier 1/2 mile upstream.



Alava Creek
101-41-35
8-7-73
Dinneford, Joyner

Survey distance = 1 mile



Name Alava Creek Catalog No. 101-41-35
 Latitude N 55° 14' 10" WR No. 67
 Longitude W 131° 07' 55" K No. 67
 Geodetic Map No. Ketchikan A-4, B-4 Work Area Ketchikan
 Location Hd. Alava Bay, N.E. corner Watershed Length 3-3/4 miles
 Drainage Area of Watershed _____
 Water Supply Type Muskeg, precipitation

Trails & Survey Routes Easy walking along lower level banks, walking okay upst:
more bedrock.

Aerial Survey Notes Fair visibility, water discolored, trees to banks in upper
areas.

Anchorage Small skiff can moor in bedrock gorge in lower ITZ.

Tide Stage When Surveyed 2nd half of ebb.

FISHERY RESOURCES

Commercial Fisheries Pink, coho

Escapement 1940, 1000 pink; 1947, 4 pink; 1948, 2000 pink; 1954, 100 pink, 10 chum

(Spawning area: 9755 m² (5000'x35'x60% ASA)

Species Composition 95% pink, remainder - chum & coho

Timing Middle to late - Aug. to October

Schooling areas In gorge at lower IT, pools just above I.T.

Shellfish Potential 100% rocky off mouth; looks like abalone could use outer
area.

Sport Fisheries Dolly Varden and cutthroat fry observed, some good looking poo:
present.

Land Use at Present None

History of Land Use None

Rehabilitation Potential Log removal 1/2 mile upstream could enhance potentia.

Soils Pretty stable, level banks; steeper further upstream with bedrock more
apparent.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings 1-200# bear between #1 & #2	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	1
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	0
	Estimate depth out from beach	0
	Eel grass present on what percent of flats	0

Name: Alava Creek
 Number: 101-51-35

Date: 8-7-78
 Temperature: 63° F
 Weather: Overcast

Station No.

Pool Size/Type

Riffle Type
 Width-Depth

Pool Riffle
 Frequency

Bottom Type
 (Riffle)

Color/Turbidity

Velocity

Flow (C.F.S.)

Temp. (°F.)

pH

Fry Abundance

Benthos
 Sample No.

Higher Plant
 Class

Aquatic Veg.
 Density

Ident.

(1) Mosses

(2) Algae

1	2	3	4												
1/2	1/2	1/2	3/2												
40'W 5"D	56'W 16"D	33'W 10"D	32'W 10"D												
3	3	3	2												
4	4/1	4	6/4												
2/1	2/1	2/1	2/1												
2	1	2	2												
15.94															
59°	56°	56°	56°												
5	5	5	5												
1-6 3-26	1-15 2-3 4-3 3-4	0	0												
1	0	0	0												
2/3	2	2	2/3												
2	2	2	2												
2	2	1	1												

General Remarks (rehab., land use, barriers, log jams, etc.):

PEAK ESCAPEMENT RECORD

Alava Creek
101-41-35

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
9-14-40	1,000			Excellent. 9,000 fish off mouth
10-2-46				Excellent.
9-16-47	4			
9-28-48	2,000			Poor
8-27-54	100	10		Several 100 at confluence.
8-31-62				None observed.

- 18 -

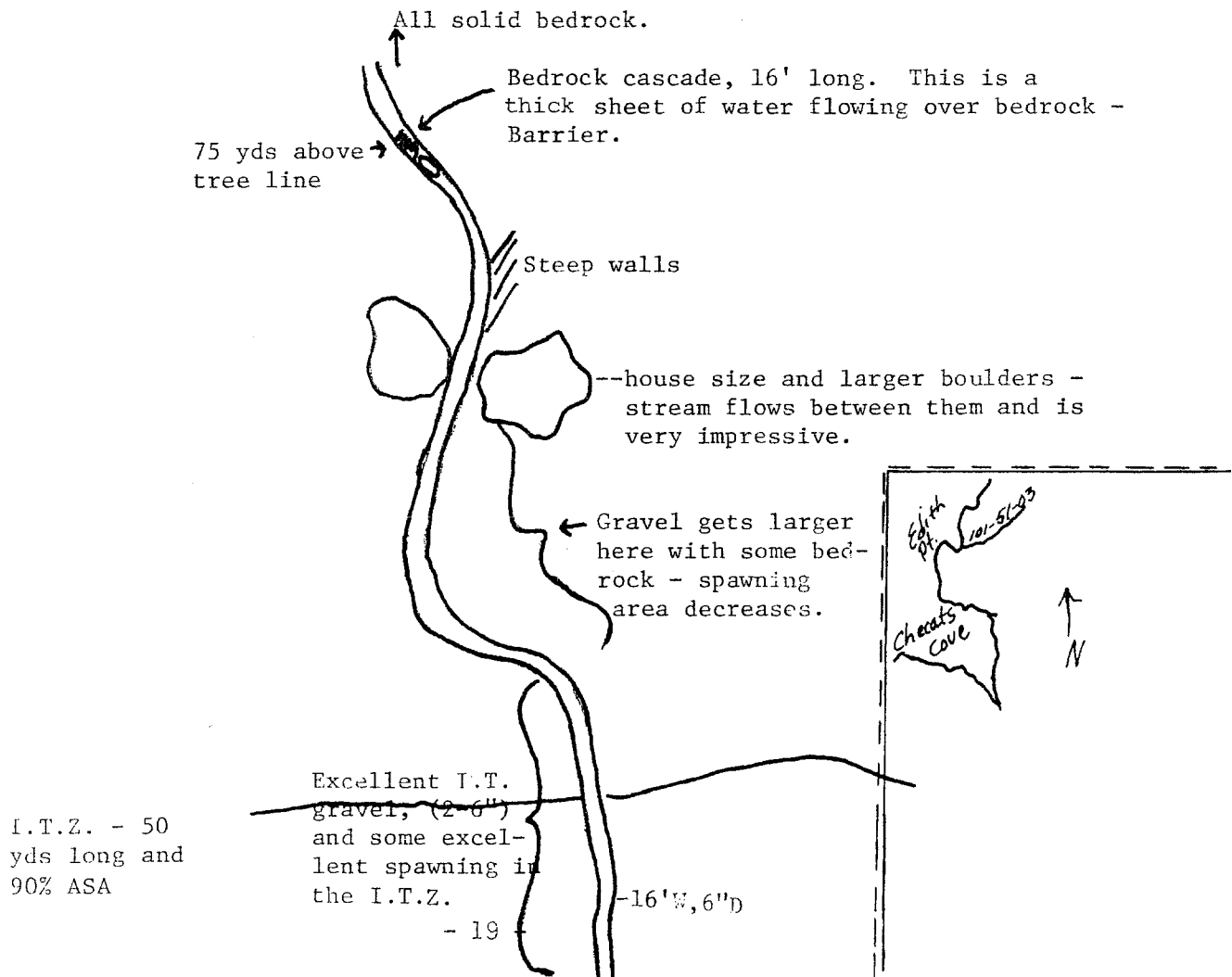
Edith Point Creek

101-51-03

7-29-75

Downey

Not much of a stream for length but it has
some excellent I.T. spawning area.



Name Edith Point Creek Catalog No. 101-51-03
 Latitude N 55° 29' 08" WR No. none
 Longitude W 130° 52' 05" K No. none
 Geodetic Map No. Ketchikan C-3 Work Area Ketchikan
 Location Behm Canal E. shore 1/4 N. Edith Watershed Length 2 miles
 Drainage Area of Watershed 1.4 sq. miles
 Water Supply Type Precipitation

Trails & Survey Routes Stream can be walked to barrier (75 yds.)

Aerial Survey Notes None

Anchorage Checats Cove.

Tide Stage When Surveyed High tide.

FISHERY RESOURCES

Commercial Fisheries None recorded but has excellent spawning gravel (I.T. 50 yds 90% ASA) and should support a small pink salmon population.

Escapement None recorded. Spawning area: 200 m²
(16'W x 150'L x 90% ASA)

Species Composition pinks

Timing

Schooling areas In pool below barrier.

Shellfish Potential Low

Sport Fisheries Low

Land Use at Present None

History of Land Use None

Rehabilitation Potential None

Soils Large gravel in streambed with bedrock. Steep banks on S.E. side - stable.

GAME RESOURCES

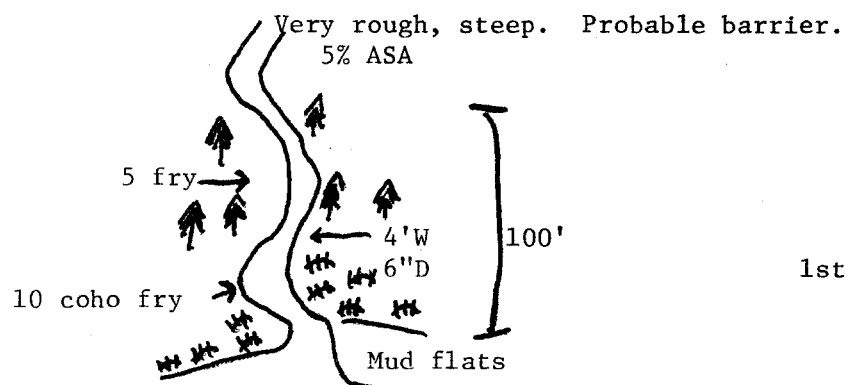
Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	150 yds
	Estimate depth out from beach	150 yds
	Eel grass present on what percent of flats	

Checats Cove

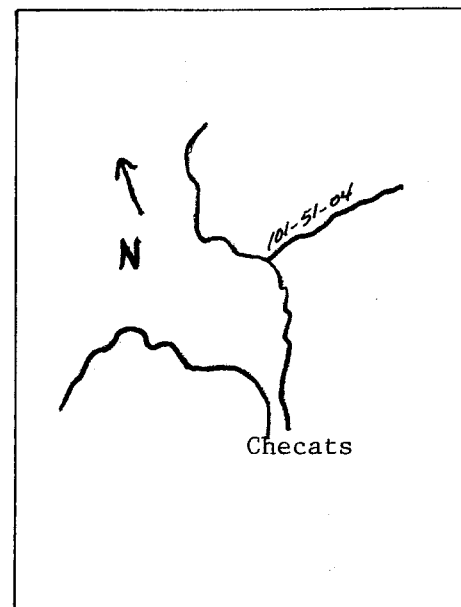
7-29-75
101-51-04
R. Larson, Ward

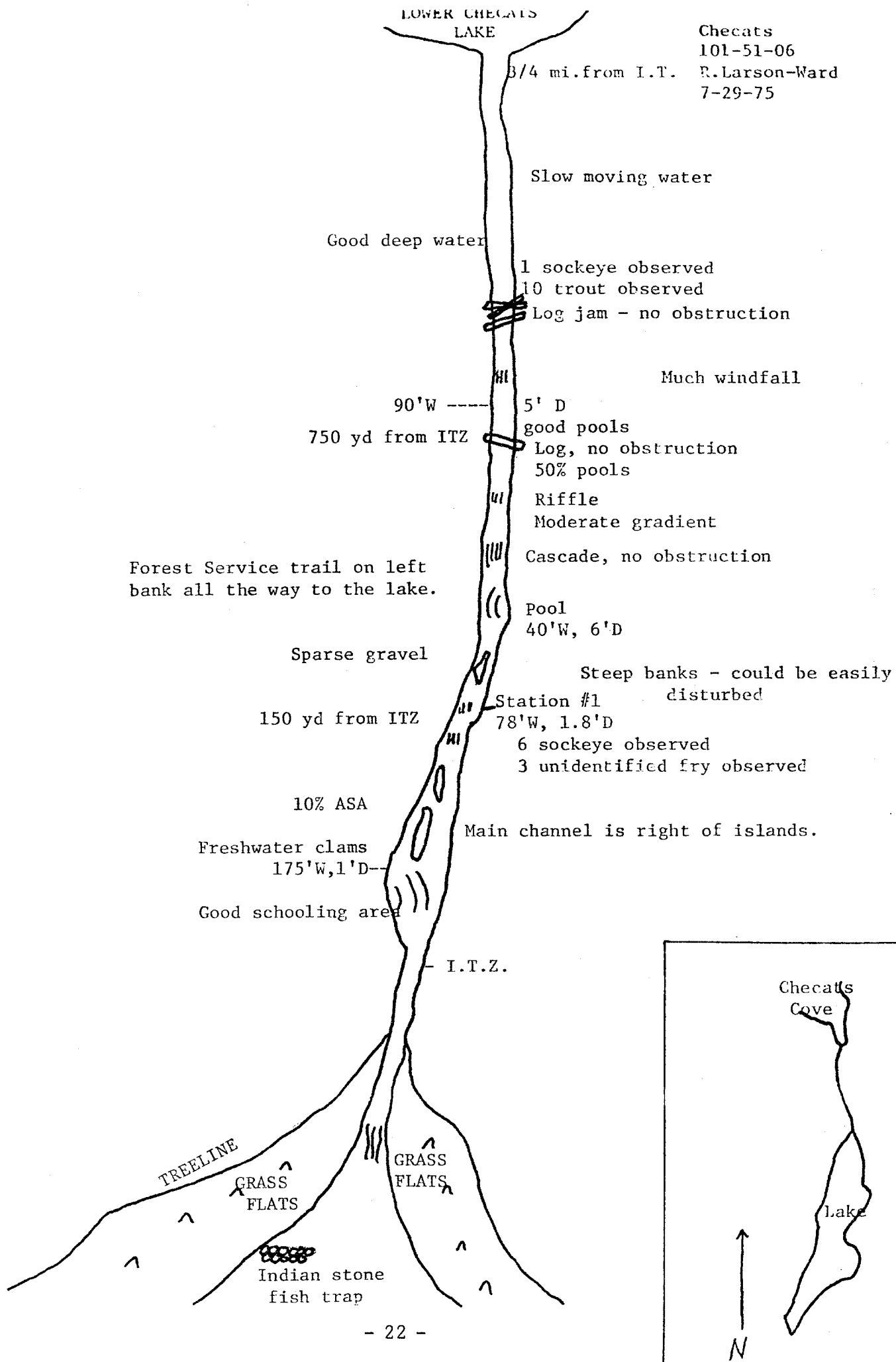
Very small stream included because of coho fry seen in lowest portion of stream. Very small creek in same bay as Checats.

Spawning area: 7 m^2 (100'x4'x20% ASA)



1st 100' of stream = 20% ASA





Name Checats Catalog No. 101-51-06
 Latitude N 55° 29' 00" WR No. 34
 Longitude W 130° 52' 03" K No. 38
 Geodetic Map No. Ketchikan B-3 Work Area Ketchikan
 Location Behm Canal so. end of Checats Cove Watershed Length 7 miles
 Drainage Area of Watershed 15 sq. miles
 Water Supply Type Precipitation, lake fed.

Trails & Survey Routes There is a Forest Service trail in good shape along the entire length of the stream which provides good access to the stream and lake.

Aerial Survey Notes This is a straight, fairly wide stream which could be surveyed aerially.

Anchorage Anchor off the delta in the cove.

Tide Stage When Surveyed 2nd half of flood

FISHERY RESOURCES

Commercial Fisheries Pink, red, chum

Escapement 9-14-57, 5,000 pink, 100 chum. Spawning area: 3902 m²
(3500' L x 60' W x 20% ASA) below lake

Species Composition Unknown

Timing Middle, August - September

Schooling areas There is a large pool 50 yards above the I.T.Z.

Shellfish Potential Dungeness crab can be found off mouth of stream.

Sport Fisheries Red, cutthroat, resident rainbow, steelhead, Dolly Varden

Land Use at Present Stream and lakes are popular sport fishing spots

History of Land Use Unknown

Rehabilitation Potential No rehab. needed to increase fish spawning facilities.

Soils Soils appear to be stable.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	1
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles--	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	150 yds.
	Estimate depth out from beach	25 yds.
	Eel grass present on what percent of flats	3%

STREAM INVENTORY FORM

Name: CHECATS

Number: 101-51-06

Observers: R. Larson, W. M. M.

Date: 7-29-75

Temperature: 58°

Weather: Overcast

Station No.	1															
Pool Size/Type	3/2															
Riffle Type	78'W															
Width-Depth	1.77'D															
Pool Riffle Frequency	3															
Bottom Type (Riffle)	4/5/1															
Color/Turbidity	2/2															
Velocity	2															
Flow (C.F.S.)	24.3															
Temp. (°F.)	56°															
pH	4															
Fry Abundance																
Benthos Sample No.																
Higher Plant Class	3															
Aquatic Veg. Density	2															
Ident.																
(1) Mosses																
(2) Algae	1															

General Remarks (rehab., land use, barriers, log jams, etc.): Three unidentified fry observed at Station #1. Also 6 sockeye just above the station.

PEAK ESCAPEMENT RECORD

Checats
101-51-06

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
9-15-43				Some at mouth. Good. Some pink.
9-18-47	6,000	300	200 red	Good
7-27-49			30 red	
8-19-53			500 red at feeder stream.	
9-15-54	3,000			
9-14-56	5,000	100		100 pink at mouth.
9-14-57	5,000	100		Fair.
9-8-61				None observed in creek. A few at lake outlet.
8-8-63				Poor vis. in stream due to shadows. Good vis. @ mouth. N.O. IT

101-51-10
Winstanley Creek
6-7-76
R. Larson

Walking quite
difficult.

200 yards of long curving
staircase of small falls and
heavy rapids. Continues
steeply with little or no
utilization beyond this point.
Steep smooth rock banks.

15' W., 4' Cascade.

No fry observed. POOL

90% rapids.

Bear tracks

Steep 80' rock banks.

5% ASA

Large (4') boulders
in streambed with
small deep pools.

Rearing area pro-
vided by still
areas on edges.

All exposed rocks - moss covered.

Amount of algae decreasing.

5% ASA

Slide

Steep gradient.

Steep rock
banks.

pool

5% rubble. 35% gravel.

No flood damage.

5% ASA

Banks covered with thick layer of moss.

Steep rock banks.

Heavy rapids.

Several fry, un-
known species.

Alders

Gravel bar.

51' W. Station #2

Very swift water, algae and moss on most rocks,
mostly rubble.

Salmon bones on bank.

Cedar, hemlock,
spruce forest.

rapids

20% ASA

Forest Ser-
vice trail
to Winstan-
ley Lakes.

12' W.

Sand 10%

Gravel 60%

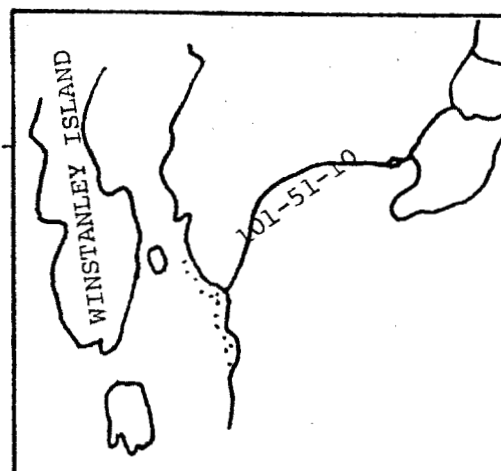
Rubble 30%

Coarse gravel
and rubble.

Station #1

10% ASA

Much moss.



Name: Winstanley Creek Catalog No.: 101-51-10
Latitude: 55 24' 03" WR No.: 33
Longitude: 130 52' 09" K No.: 37
Geodetic Map No.: Ketchikan B-3 Work Area: Ketchikan
Location: Behm Canal E.shore at South Watershed Length: 8.5 miles
entrance of Shoalwater Pass. Drainage Area: 15.5 sq. miles
Water Supply Type: Two large lakes. Melting snow and precipitation also.

Trails & Survey Routes: There is a Forest Service trail along the right hand side of the stream from saltwater to a cabin on the first lake.

Aerial Survey Notes: Difficult to survey by air.

Anchorage: Use southern Shoalwater Pass anchorage. There were floats at the stream mouth put in by the Forest Service, now removed however.

Tide Stage when Surveyed: 2/3 flood.

FISHERY RESOURCES

Commercial Fisheries: Spawning area confined to lower portion of stream (.2 miles) between saltwater and 1st lake. Pink salmon are the major species, chum also.

Escapement: High historic 10-3-47, 1,464 pinks, 200 chum.

Spawning area 1171 m² (600'x60'x35% ASA)

Species Composition: Approx. 85% pink, 15% chum.

Timing: Late - September, October.

Schooling Areas: None reported.

Shellfish Potential: Clams on gravel delta.

Sport Fisheries: Steelhead in stream. Excellent cutthroat trout fishing in lakes large population of 4-7" rainbows in lower stream.

Land Use at Present: Popular fishing area for both walk in and fly in parties.

There is a Forest Service cabin on both upper and lower lakes.

History of Land Use: Long history of use by sport fishermen, popular even in 1930's.

Rehabilitation Potential: None.

Soils: Stream has cut a narrow steep-sided ravine from lower lake. Topsoil shallow and subject to erosion if disturbed. Upper half of stream cuts cross bedding, forming cascades.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	
	Number of droppings	<u>1</u>
Geese -----	Number seen on tide flats	
	Number seen up creek	
	Number of broods seen	
Mallards ---	Number seen on tide flats	
	Number seen up creek	
	Number of broods seen	
Mergansers -	Number of broods seen	
Bald Eagles-	Number seen along creek	
	Number of nests seen and location	
Seals -----	Number seen at mouth	
Tide flats -	Estimate length along beach	<u>Large gravel delta. 300 yds.</u>
	Estimate depth out from beach	<u>75 yds.</u>
	Eel grass present on what percent of flats	<u>?</u>

7-29-75

6-7-76

Name: Winstanley CreekNumber: 101-51-10Date: 7-29-75Temperature: 58Weather: Overcast

Station No.

1

2

Pool Size/Type

(1)
rocks

3/1

Riffle Type
Width-Depth70'W
2'D51'W
1.2'DPool Riffle
Frequency

3

2

Bottom Type
(Riffle)

4/5

65% rubble
35% gravel
5

Color/Turbidity

2/2

2/1

Velocity

3

3

Flow (C.F.S.)

*

150

Temp. (°F.)

54

51

pH

7.5

Fry Abundance

0

Benthos
Sample No.Higher Plant
Class

2

1

Aquatic Veg.
Density
Ident.

1

1

(1) Mosses
(2) Algae

2

1-2

General Remarks (rehab., land use, barriers, log jams, etc.): 6-7-76 - Air temp. 60F. Weather, clear.

7-29-75

(1) Station taken at high tide mark - no pools.

Stream was higher than normal which made it difficult to walk and to see the fry.

* 6-37 mean discharge 142 ft/sec.

PEAK ESCAPEMENT RECORD

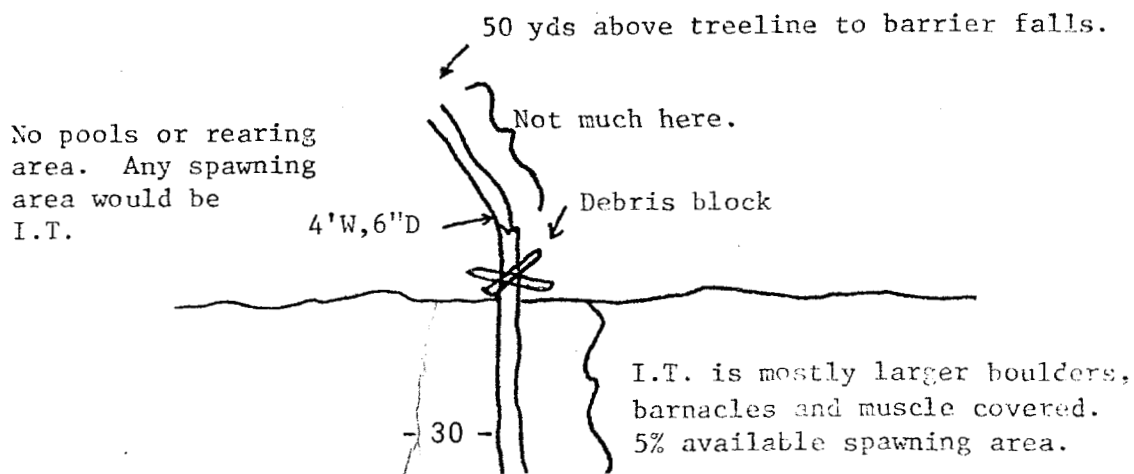
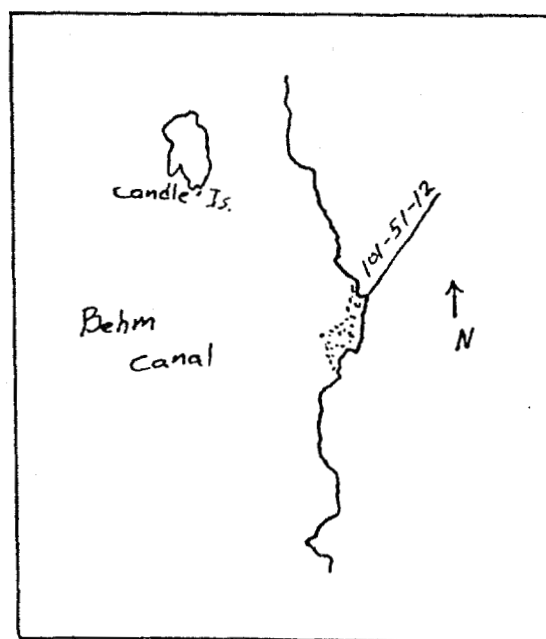
Winstanley Creek
101-51-10

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
10-3-57	882	200		582 dead pink. 700 off mouth.
9-15-54	1,000	200		
8-8-63				None observed. I.T.
8-19-64				Stream high. Good visibility.

- 29 -

101-51-12
7-29-75
Downey, B. Larson

Small stream, steep above the high tide line.
Very limited I.T. spawning area and would
support only a few spawners. Very low potential
stream. Just south Winstanley Island.



Gradient steepens a bit. This looks like about the end. Swift-larger boulders flows through debris. More water this fork (4/5 of total).

Approx. 1 mi.

Gradient still not excessively steep. 6-8'W. Not much flow this fork but enough. Has good gravel (2-6").

101-51-13

7-29-75

Downey, B. Larson

Debris + heaps & piles of gravel from high flows.

Debris, no block

Continues steepening but some areas of excellent spawning gravel.

Banks slumping: This side of stream is steeper.

Gradient steepens slightly

More than the average amount of windfall in and across the stream but no blocks and not too difficult walking.

65% ASA for the total stream.

Many unidentified fry seen throughout the stream.

125 yds long. Some trace of bedrock. Larger gravel here and larger boulders. Narrower and swifter - more velocity. 30% ASA here.

Surveyed at 4/5 ebb tide.

Split channel area jumbled up with logs and debris. No block.

This area subject to high flows. Gravel piled up and some dry overflow channels here. Still flat gradient here.

Large spruce

Banks and trees slumped.

Stream narrows with a little more velocity.

150 yds. Very good spawning area. 2-8" gravel and larger boulders. 75% ASA here.

Split channel area

Two large trees across crk.

Pool with several unidentified small trout and several unidentified fry.

Black bear

150 yds. long - some windfall but good spawning area. 2-8" gravel. 80% ASA here.

Steep bank - some slumping.

Small bedrock cascade

Some traces of bedrock but some excellent spawning riffles also - 125 yds long. Gravel 2-6" with some larger. 50% ASA here.

Pure bedrock - 30 yds.

Several trees across stream - no block.

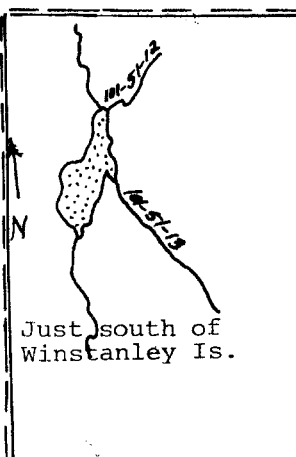
Station #1
70% available spawning area to here.

Split channel area in ITZ.

Nice flats

1st pool: IT has 2-6" gravel with larger boulders. Some very good spawning area-particularly upper I.T.

Lower I.T. has some spawning area but is marginal with larger boulders and some silt.



Name _____ Catalog No. 101-51-13
 Latitude N 55° 23' WR No. 32
 Longitude W 130° 52' 05" K No. 36A
 Geodetic Map No. Ketchikan B-3 Work Area Ketchikan
 Location Behm Canal E. shore Watershed Length 1.5 miles
 Drainage Area of Watershed 3.2 sq. miles
 Water Supply Type Precipitation

Trails & Survey Routes Relatively easy walking in the stream bed.

Aerial Survey Notes May be difficult to survey by air due to windfall in creek masking resting fish and tall spruces covering narrow creek.

Anchorage Exposed anchorage at stream mouth. Good anchorage in shoalwater pass.

Tide Stage When Surveyed 1/2 tide

FISHERY RESOURCES

Commercial Fisheries Pink and coho

Escapement Only recorded surveyed record located - 20 pinks, 10-3-47.

(4000'L x 15'W x 65% ASA) Spawning area: 3623 m²

Species Composition Pink Coho

Timing Mid/Late - September

Schooling areas None noted

Shellfish Potential Flats at stream mouth should support large clam population and some crab. Many burrowing worms noted.

Sport Fisheries Several trout 6-10" - species unknown. Saw cohos off mouth in fall.

Land Use at Present None

History of Land Use Unknown

Rehabilitation Potential None needed at present.

Soils Granite cobbles in streambed. Rich, black dirt in lower stream valley. Bed rock visible in areas of streambed. Upper stream bank has only very thin layer of topsoil coving rock substrate

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings <u>Saw 1 black bear</u>	3
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	10
Tide flats -	Estimate length along beach	300 yds
	Estimate depth out from beach	75 yds
	Eel grass present on what percent of flats	?

Name: _____

Date: 7-29-75Number: 101-51-13

Temperature: _____

Weather: Overcast

Station No.

1

Pool Size/Type

2/2

Riffle Type
Width-Depth30'W
1'DPool Riffle
Frequency

3

Bottom Type
(Riffle)

4/5

Color/Turbidity

2/1

Velocity

2

Flow (C.F.S.)

17.4

Temp. (°F.)

48°

pH

Fry Abundance

1-150

Benthos
Sample No.Higher Plant
Class

1

Aquatic Veg.
Density
Ident.

2

(1) Mosses
(2) Algae

2

General Remarks (rehab., land use, barriers, log jams, etc.): Several windfalls with associated rapids and pools - no barrier.

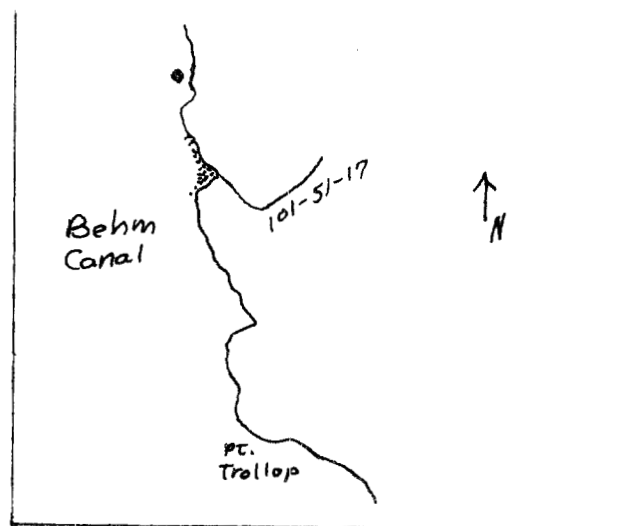
PEAK ESCAPEMENT RECORD

.8 miles S-SE so. entrance to Shoalwater Pass
101-51-13

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
10-3-47	10			10 at mouth.

- 34 -

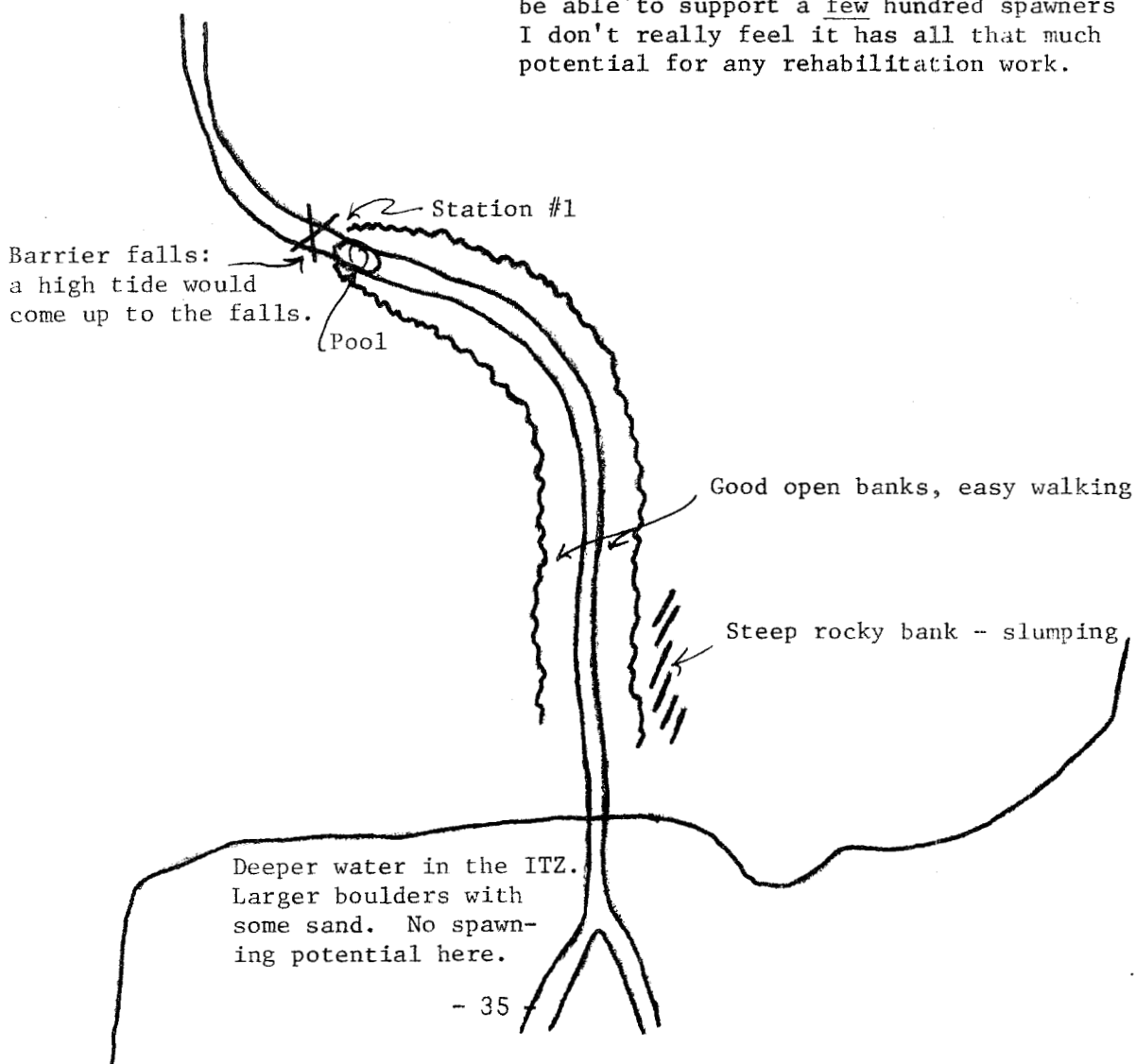
101-51-17
7-29-75
Downey, B. Larson



Some good gravel (4"-8") but spawning is mostly restricted to the stream edges.

Traces of bedrock throughout. 15% available spawning area. Surveyed at 2/3 ebb tide.

Even though this stream would appear to be able to support a few hundred spawners I don't really feel it has all that much potential for any rehabilitation work.



Name _____ Catalog No. 101-51-17
Latitude N 55° 20' WR No. 31
Longitude W 130° 52' 03" K No. 36
Geodetic Map No. Ketchikan B-3 Work Area Ketchikan
Location Behm Canal-1.3 mi. N. Pt. Trollop Watershed Length 5 miles
Drainage Area of Watershed 6 sq. miles
Water Supply Type Snow fields and precipitation

Trails & Survey Routes Left bank is easily walked to barrier falls.

Aerial Survey Notes Fish may be difficult to see in pools but easily seen in short area between ITZ and pool

Anchorage Anchorage for small boats in bight where stream empties. Good anchorage 2.5 miles south behind Carp Island

Tide Stage When Surveyed 2/3 ebb.

FISHERY RESOURCES

Commercial Fisheries Pink, possibly chum.

Escapement 10-4-47 and 7-29-75 (no fish seen in either case)
(300'L x 38'W x 15% ASA) Spawning area: 159 m²

Species Composition Pinks chums

Timing

Schooling areas In pool below falls

Shellfish Potential Looks like there should be clam beds on the beach.

Sport Fisheries Limited due to small area below the falls. Upper stream potent for trout probably small due to small size of creek.

Land Use at Present None

History of Land Use Unknown

Rehabilitation Potential None - 15' falls may be uneconomical to bypass w ladder. Upper stream potential unknown.

Soils Lava flats to east and south. Angular rubble falling from 40' cliff on S.E. bank. Foamy volcanic and rounded granite cobbles in streambed, granite bedrock on N banks.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	250 yd
	Estimate depth out from beach	50 yd
	Eel grass present on what percent of flats	0

Name: _____
 Number: 101-51-17

Date: 7-29-75
 Temperature: _____
 Weather: Overcast

Station No.

1

Pool Size/Type

2/1

Riffle Type
 Width-Depth

38'W
 1'D

Pool Riffle
 Frequency

3

Bottom Type
 (Riffle)

6/4

Color/Turbidity

2/2

Velocity

2

Flow (C.F.S.)

45

Temp. (°F.)

pH

Fry Abundance

0

Benthos
 Sample No.

Higher Plant
 Class

2

Aquatic Veg.
 Density
 Ident.

3

(1) Mosses
 (2) Algae

2

General Remarks (rehab., land use, barriers, log jams, etc.): Stream has barrier falls with associated large pool approximately 200 yds. from stream mouth.

(

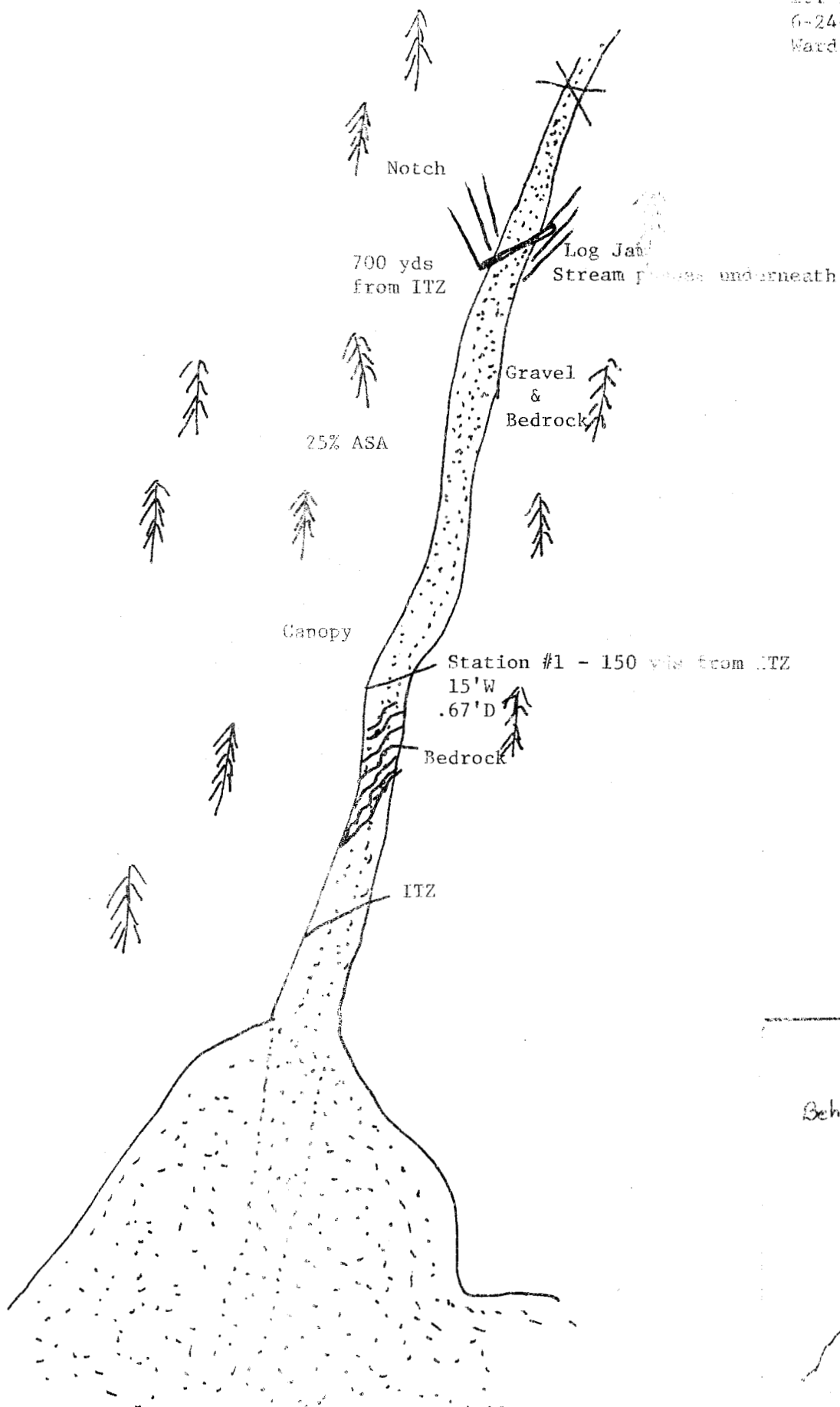
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PEAK ESCAPEMENT RECORD

1.3 miles N. Pt. Trollop
101-51-17

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
10-4-47				No fish seen

Big Notch Creek
 101-51-25
 6-24-75
 Ward - Jones



Name Big Notch Creek Catalog No. 101-51-25
Latitude N 55° 14' 06" WR No. _____
Longitude W 130° 57' 09" K No. _____
Geodetic Map No. Ketchikan B-3 Work Area Ketchikan
Location Behm Canal 2 mi. No. Roe Pt. Watershed Length 2 miles
Drainage Area of Watershed 6.0 sq. miles
Water Supply Type Ground water and precipitation fed.

Trails & Survey Routes Dense brush makes streambed route most practical.

Aerial Survey Notes Canopy effect reduces aerial survey effectiveness.

Anchorage Safe anchorage behind Carp Island. Alternative anchorage in cannery area .5 miles south or at Sykes Cove.

Tide Stage When Surveyed 2nd half of low

FISHERY RESOURCES

Commercial Fisheries Pink, coho, chum

Escapement unknown, no historical records. Spawning area: 732 m²
(2100'L x 15'W x 25% ASA)

Species Composition Pink, coho, chum

Timing Late - September, October

Schooling areas Possible schooling areas 50 yds off mouth of stream.

Shellfish Potential Dungeness crab sampled in area.

Sport Fisheries Pink, chum, coho, Dolly Varden and possibly cutthroat trout.

Land Use at Present Recreation - potential for timber harvest.

History of Land Use Handlogging in area.

Rehabilitation Potential Rehabilitation unnecessary

Soils V-notch watershed characteristics.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	1
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Ballards ---	Number seen on tide flats	2
	Number seen up creek	0
	Number of broods seen	0
Wangansers -	Number of broods seen	0
Gold Eagles-	Number seen along creek	1
	Number of nests seen and location	0
Osprey -----	Number seen at mouth of stream	0
Tide Flats -	Estimate length along beach	250 yd
	Estimate depth out from beach	25 yd
	Eel grass present on what percent of flats	2%

STREAM INVENTORY FORM

Name: Big Notch

Number: 101-51-25

Observers: Ward - Jones

Date: 6-24-75

Temperature: 52°

Weather: Overcast

Station No.

1

Pool Size/Type

3/1

Riffle Type
Width-Depth

15'W
.67'D

Pool Riffle
Frequency

2

Bottom Type
(Riffle)

6

Color/Turbidity

1/1

Velocity

2

Flow (C.F.S.)

13.5

Temp. (°F.)

48°

pH

5

Fry Abundance

Dr.

Single

Class

Aquatic Veg
Density

3

Ident.

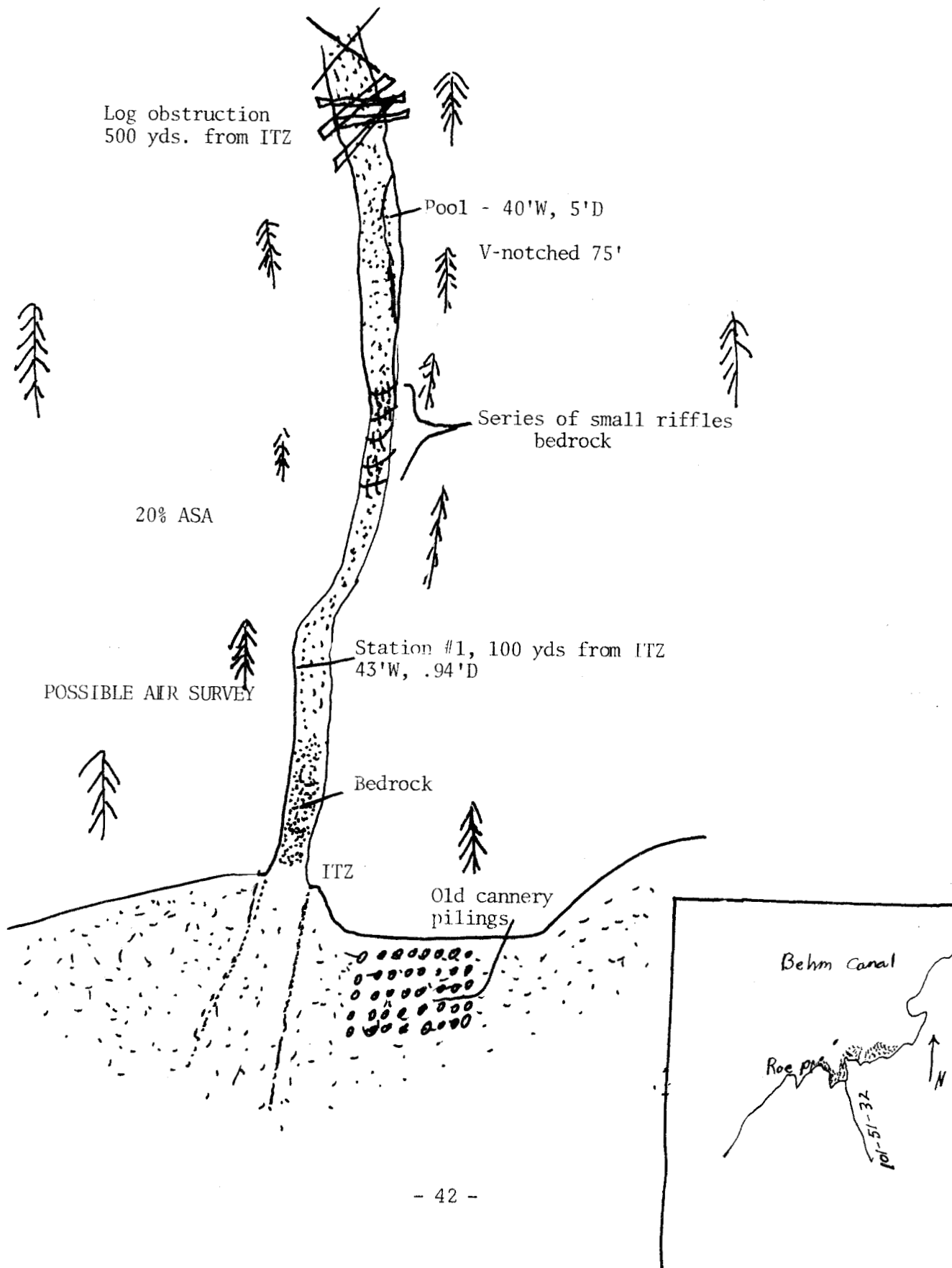
(1) Mosses

(2) Algae

1

General Remarks (rehab., land use, barriers, log jams, etc.):

Cannery Creek
101-51-32
6-24-75
Jones, Ward



Name Cannery Creek Catalog No. 101-51-32
Latitude N 55° 14' 04" WR No. _____
Longitude W 130° 59' 06" K No. _____
Geodetic Map No. Ketchikan A-4 Work Area Ketchikan
Location Behm Canal 3/8 m. No. Roe Pt. Watershed Length 2.5 miles
Drainage Area of Watershed 3.9 sq. miles
Water Supply Type Ground water, precipitation fed.

Trails & Survey Routes Stream bed route, heavy brush on stream bank.

Aerial Survey Notes Air survey is possible by helicopter.

Anchorage Good anchorage behind Carp Island. Also, short term anchorage in cove east of stream mouth.

Tide Stage When Surveyed low tide, 1st half

FISHERY RESOURCES

Commercial Fisheries Pink, coho, chum

Escapement Unknown - no records of past escapement. Spawning area: 1198 m² (1500' x 43' x 20%ASA)

Species Composition Pink, coho, chum

Timing Late - September

Schooling areas Some pools in upper levels of surveyed section.

Shellfish Potential Dungeness crab sampled in area of cannery site. Some clam potential in tidal flats.

Sport Fisheries Pink, coho, chum and possible cutthroat (anadromous)

Land Use at Present Recreational area.

History of Land Use Cannery at mouth of stream - hand logging in area.

Rehabilitation Potential Obstruction 500 yds above ITZ could be removed to enable access to upper level of stream.

Soils Some V-notching increase-potential for erosion.

GAME RESOURCES

Bear	_____	Fish carcasses or bones (old or fresh) on banks, estimate	0
		Number of droppings	1
Geese	_____	Number seen on tide flats	0
		Number seen up creek	0
		Number of broods seen	0
Mallards	---	Number seen on tide flats	0
		Number seen up creek	0
		Number of broods seen	0
Mergansers	-	Number of broods seen	0
Bald Eagles	-	Number seen along creek	2
		Number of nests seen and location	0
Seals	-----	Number seen at mouth of stream	1
Tide flats	-	Estimate length along beach	200 yds.
		Estimate depth out from beach	50'
		Eel grass present on what percent of flats	5%

STREAM INVENTORY FORM

Name: Cannery Creek

Number: 101-51-32

Observers: Jones, Ward

Date: 6-24-75

Temperature: 52°

Weather: Partly cloudy

Station No.

Pool Size/Type

Riffle Type
Width-Depth

Pool Riffle
Frequency

Bottom Type
(Riffle)

Color/Turbidity

Velocity

Flow (C.F.S.)

Temp. (°F.)

pH

Fry Abundance

Benthos
Sample No.

Higher Plant
Class

Aquatic Veg.
Density

Ident.

(1) Mosses

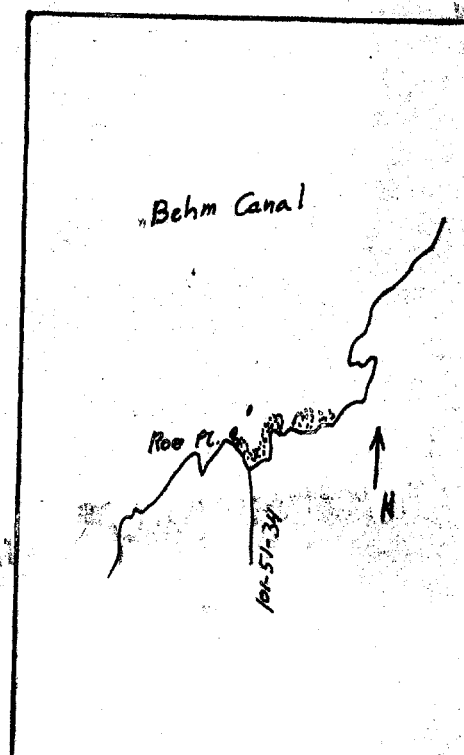
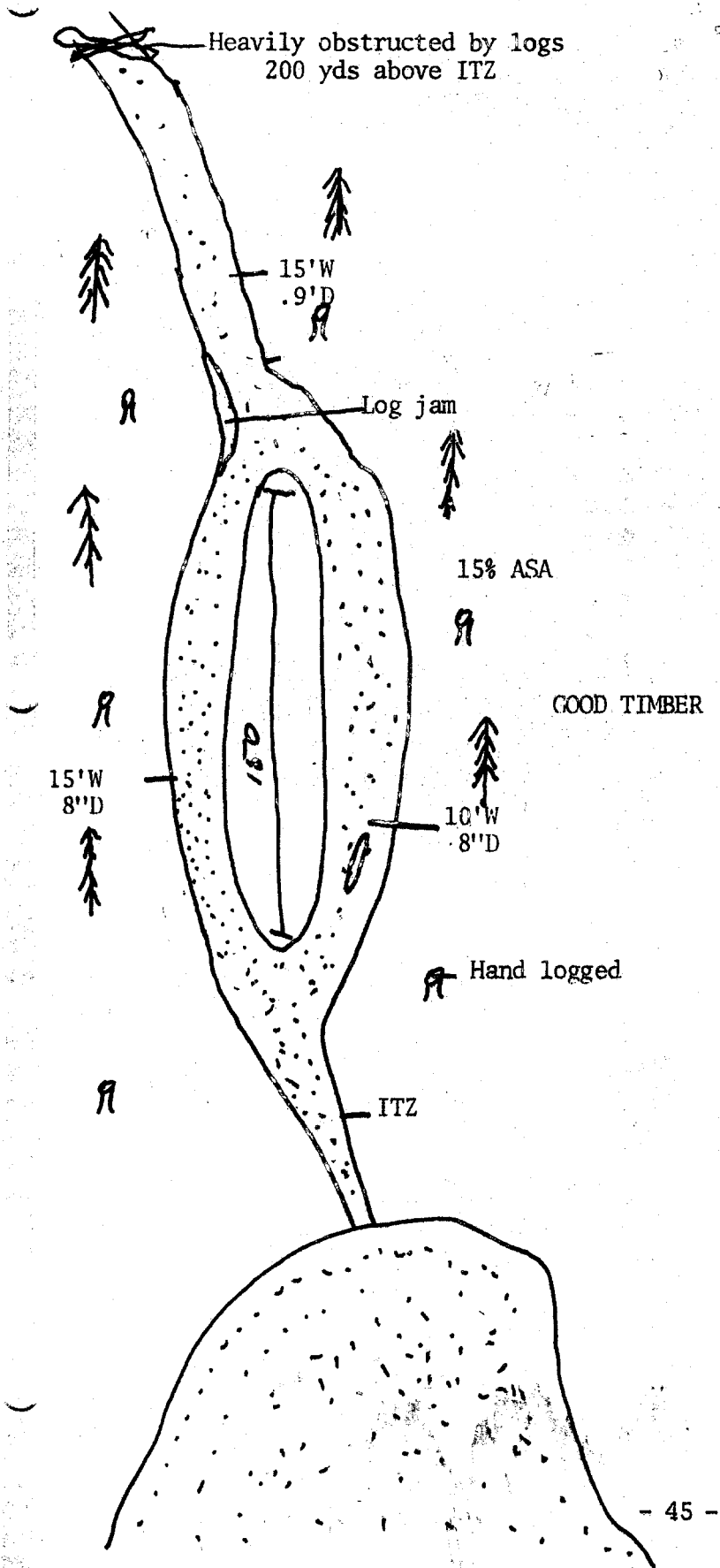
(2) Algae

1															
1/3															
43'W 94'D															
3															
6/3															
1/1															
2															
50°															
5															
2															
3															
1															

green

General Remarks (rehab., land use, barriers, log jams, etc.):

Piles Creek
101-51-34
6-24-75
Jones, Ward



Name Piles Creek Catalog No. 101-51-34
 Latitude N 55° 14' 28" WR No. 24
 Longitude W 130° 59' 54" K No. 29
 Geodetic Map No. Ketchikan A-4 Work Area Ketchikan
 Location Behm Canal 1/4 mi. No. Roe Pt. Watershed Length 3.0 miles
 Drainage Area of Watershed 3.9 sq. miles
 Water Supply Type Ground water - precipitation

Trails & Survey Routes Walk up stream bed as banks have heavy brush.

Aerial Survey Notes Canopy effect reduces aerial survey effectiveness.

Anchorage Good anchorage behind Carp Island.

Tide Stage When Surveyed 1st half low tide.

FISHERY RESOURCES

Commercial Fisheries Pink, chum and coho

Escapement High historic - 1000 pinks (1947), 250 chum (1947)
(15'W x 600'L x 15% ASA). spawning area: 125 m²

Species Composition Pink, coho, chum

Timing Late - September, October

Schooling areas

Shellfish Potential Dungeness crab sampled in the area off old cannery site. Clam beds present in ITZ - good concentration.

Sport Fisheries Pink, chum, coho, Dolly Varden and possible cutthroat (anadromous)

Land Use at Present Recreation - timber - possible mineral exploration.

History of Land Use Hand logging and some impact from past cannery operations.

Rehabilitation Potential This stream has some potential for rehab. - it is obstructed 150 yds and 200 yds above ITZ by log jams.

Soils Erosion along tidal area. Potential for erosion along stream - V-notch watershed characteristics.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	2
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	1
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	1
Tide flats -	Estimate length along beach	200 yds
	Estimate depth out from beach	50 ft.
	Eel grass present on what percent of flats	5%

STREAM INVENTORY FORM

Name: Piles Creek

Number: 101-51-34

Observers: Jones, Ward

Date: 6-24-75

Temperature: 62°

Weather: High broken

Station No.	1														
Pool Size/Type	3/1														
Riffle Type	15'W														
Width-Depth	.91'D														
Pool Riffle Frequency	3														
Bottom Type (Riffle)	6														
Color/Turbidity	1/1														
Velocity	2														
Flow (C.F.S.)	16.5														
Temp. (°F.)	46°														
pH	5														
Fry Abundance															
Benthos Sample No.															
Higher Plant Class	2														
Aquatic Veg. Density	3														
Ident.															
(1) Mosses															
(2) Algae															

General Remarks (rehab., land use, barriers, log jams, etc.):

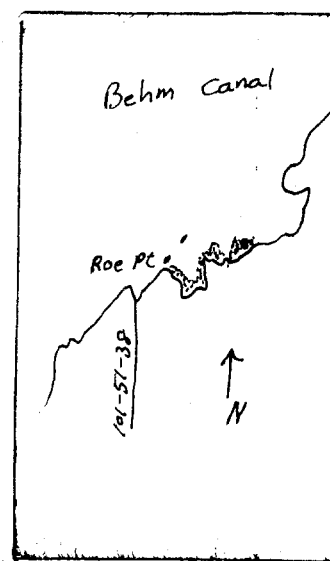
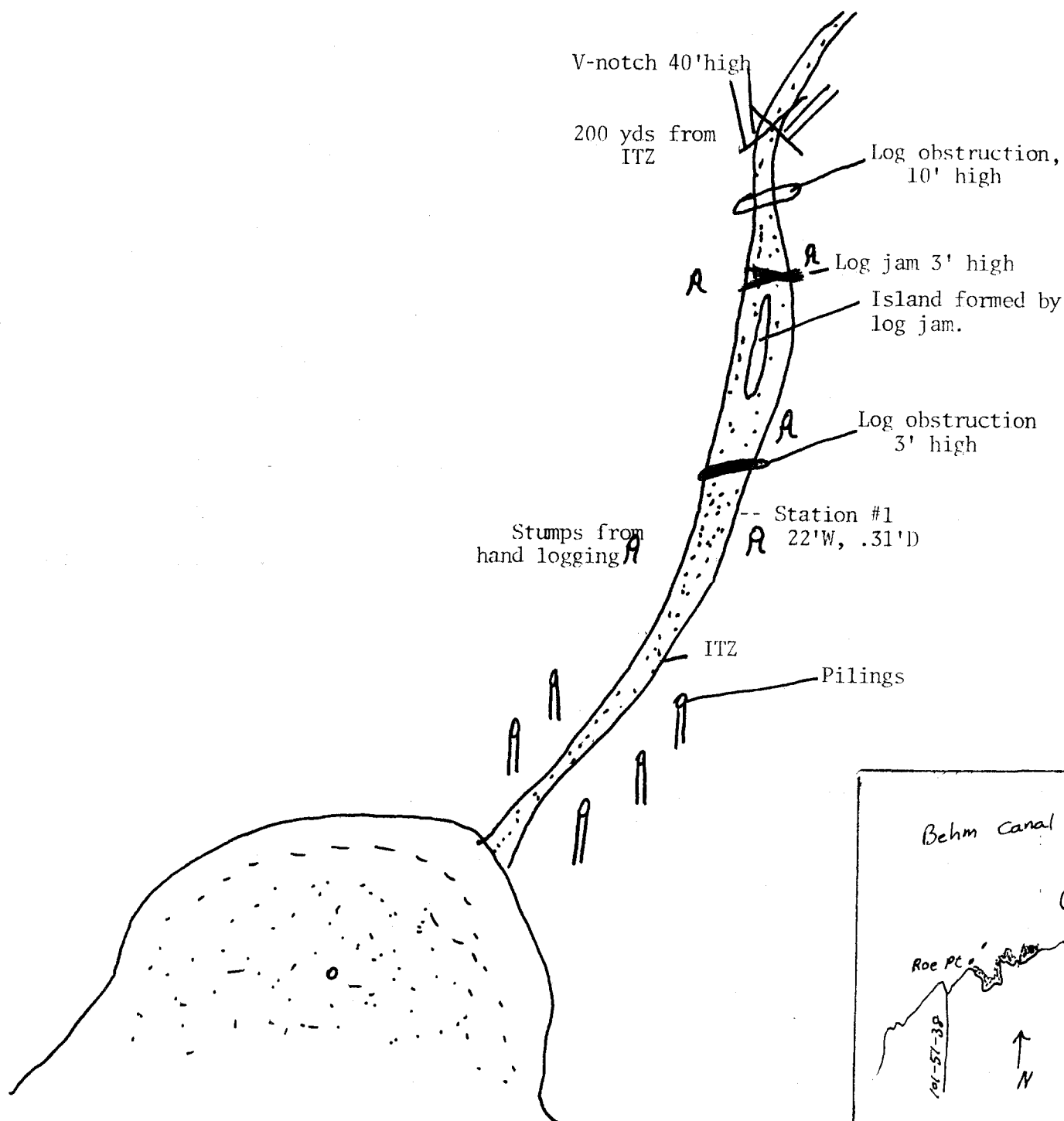
PEAK ESCAPEMENT RECORD

Between Pt. Sykes and Pt. Nelson
101-51-34

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
9-16-47 8-31-73	1,000	250		Excellent. 500 @ mouth. Visibility fair.

- 48 -

Island Creek
101-51-38
6-24-75
Jones, Ward



Name Island Creek Catalog No. 101-51-38
 Latitude N 55° 14' 28" WR No. _____
 Longitude W 131° 00' 04" K No. _____
 Geodetic Map No. Ketchikan A-4 Work Area Ketchikan
 Location Behm Canal 1/4 mi. So. Roe Pt. Watershed Length 1.8 miles
 Drainage Area of Watershed 3.9 sq. miles
 Water Supply Type Ground water and precipitation

Trails & Survey Routes Walk up stream bed as banks have dense brush.

Aerial Survey Notes Canopy effect from trees

Anchorage Good anchorage behind Carp Island. Short term anchorage off mouth of stream.

Tide Stage When Surveyed low tide

FISHERY RESOURCES

Commercial Fisheries Pink, chum, coho

Escapement Unknown - no records of past escapement.

Spawning area: 245 m² (600'x22'x20% ASA)

Species Composition Pink, coho, chum

Timing Late - September, October

Schooling areas Excellent schooling in ITZ

Shellfish Potential Some clam and dungeness crab potential. Dungeness sampled in area.

Sport Fisheries Pink, coho, chum, possibly cutthroat

Land Use at Present None at present, has recreation potential for hunting.

History of Land Use Hand logging throughout area.

Rehabilitation Potential Series of log jams with one large jam as a heavy obstruction - could be removed.

Soils V-notch situation 200 yards from ITZ. Soils otherwise fairly stable.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	3
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	2
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	1
Tide flats -	Estimate length along beach	300 yds
	Estimate depth out from beach	15 ft.
	Est grass present on what percent of flats	5%

STREAM INVENTORY FORM

Name: Island Creek

Number: 101-51-38

Observers: Jones - Ward

Date: 6-24-75

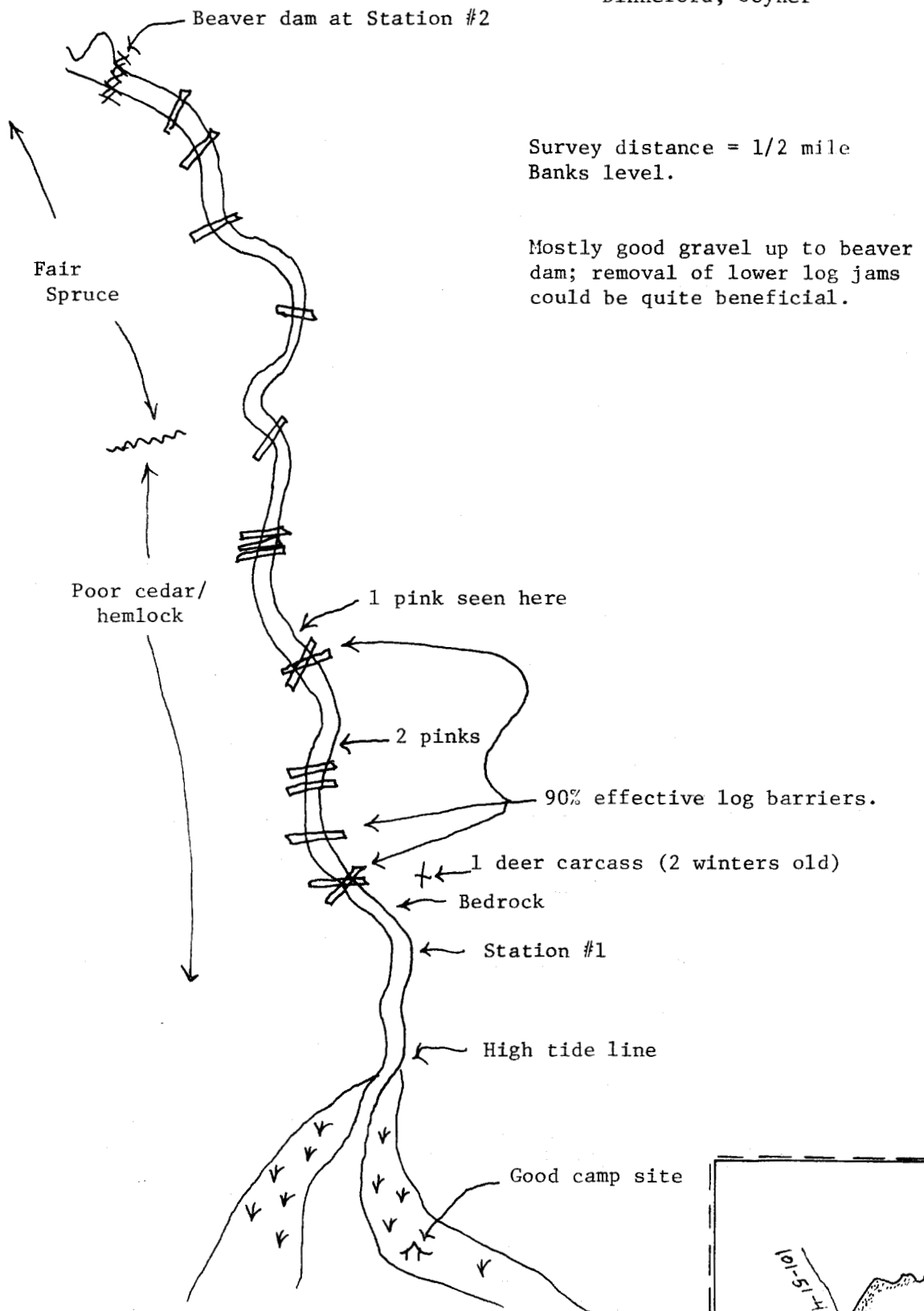
Temperature: 52°

Weather: Overcast

Station No.	1														
Pool Size/Type	3/1														
Riffle Type	22'W														
Width-Depth	.31'D														
Pool Riffle Frequency	3														
Bottom Type (Riffle)	4/6														
Color/Turbidity	1/1														
Velocity	2														
Flow (C.F.S.)	9.4														
Temp. (°F.)	46°														
pH	5														
Fry Abundance															
Benthos Sample No.															
Higher Plant Class	2														
Aquatic Veg. Density	3														
Ident.															
(1) Mosses															
(2) Algae	1														

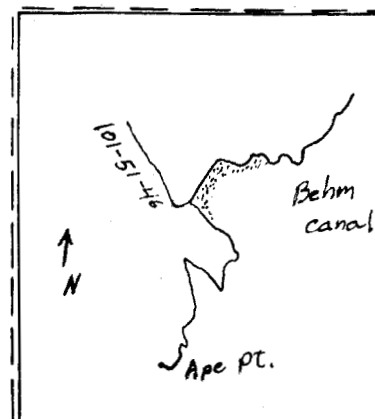
General Remarks (rehab., land use, barriers, log jams, etc.): Creek is heavily obstructed by large log jam.

101-51-46
8-8-73
Dinneford, Joyner



Survey distance = 1/2 mile
Banks level.

Mostly good gravel up to beaver
dam; removal of lower log jams
could be quite beneficial.



Name _____ Catalog No. 101-51-46
Latitude N 55° 14' 40" WR No. _____
Longitude W 131° 06' 59" K No. _____
Geodetic Map No. Ketchikan A-4, B-4 Work Area Ketchikan
Location Behm Canal 1 mi. No. Ape Pt. Watershed Length 1.5 miles
Drainage Area of Watershed _____
Water Supply Type Precipitation, muskeg.

Trails & Survey Routes Good game trail and level banks make for easy walking.

Aerial Survey Notes Stream too small for any degree of visibility.

Anchorage Poor, shallow anchorage at mouth, but well out of wind - good camp spot here.

Tide Stage When Surveyed _____

FISHERY RESOURCES

Commercial Fisheries Pink adults & coho fry seen in creek.

Escapement No records. Spawning area: 1373 m² (2640'x8'x70% ASA)

Species Composition % unknown

Timing Early pinks observed (Aug. 8)

Schooling areas None

Shellfish Potential Limited clam flats at mouth.

Sport Fisheries no trout observed.

Land Use at Present None

History of Land Use None

Rehabilitation Potential Removal of beaver dam at Station #2 may extend spawning area (could reduce rearing area).

Soils Although banks are level and superficially appear stable there are many logs across the stream.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	4 fresh
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	1 bd., 9 you
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	500 feet
	Estimate depth out from beach	30 feet
	Eel grass present on what percent of flats	0

STREAM INVENTORY FORM

Name: _____

Number: 101-51-46

Observers: Dinneford - Jcyner

Date: 8-8-73

Temperature: 59°

Weather: Overcast - light rain

Station No.	1	2														
Pool Size/Type	1/2	1/2														
Riffle Type	7'W	9'W														
Width-Depth	4"D	7"D														
Pool Riffle Frequency	2	2														
Bottom Type (Riffle)	4/6	4/6 4/1														
Color/Turbidity	2/1	2/1														
Velocity	2	1														
Flow (C.F.S.)	2.7															
Temp. (°F.)	55°	55°														
pH	5	5														
Fry Abundance	1-1 3-6	1-4														
Benthos Sample No.	1	0														
Higher Plant Class	3	2														
Aquatic Veg. Density	3	3														
Ident.																
(1) Mosses																
(2) Algae	2	2														

General Remarks (rehab., land use, barriers, log jams, etc.):

Excellent spawning gravel

Survey length = 1-1/2 miles

Gravel good, a few pinks seen here.

7 large spruce across stream.

Bedrock cascade at Station #4. Stream narrows to 4'.

Tributary #1

Station #3

6' falls, pink barrier(?)

Many bedrock pools. 300 pink observed. Steep banks.

Station #2. Small amount of downslope movement.

Stream narrows

Station #1

High tide

Huge cedar

Channel split in I.T. area. Excellent large gravel

Wolf Creek

101-51-50

8-5-73

Dinneford, Joyner

N

101-51-50

Behm Canal

Ape Pt.

Name Wolf Creek Catalog No. 101-51-50
 Latitude N 55° 15' 47" WR No. -
 Longitude W 131° 06' 29" K No. -
 Geodetic Map No. Ketchikan A-4, B-4 Work Area Ketchikan
 Location 1-1/4 mi. No. Ape Pt. rt. side cove Watershed Length -
 Drainage Area of Watershed -
 Water Supply Type Precipitation, drains high watershed.

Trails & Survey Routes Mostly good walking in shallow part of the stream. Bedrock areas present, some difficulty.

Aerial Survey Notes Banks mostly steep, trees limit sight from air.

Anchorage Fair foul weather bight for small craft only.

Tide Stage When Surveyed Flood.

FISHERY RESOURCES

Commercial Fisheries pink and coho observed. No records of other species. A few jumpers in cove.

Escapement Spawning area: 12361 m² (7920'x24'x70% ASA)

Species Composition % unknown. Pinks in lower 3/4 mile. Coho in upper 3/4.

Timing Early pinks (August)

Schooling areas Good pools throughout stream.

Shellfish Potential Some eel grass in cove. Many shrimp larva off mouth.

Sport Fisheries Dolly Varden and cutthroat fry identified.

Land Use at Present None

History of Land Use None

Rehabilitation Potential Laddering of the 6' falls 3/4 mile upstream could provide additional pink salmon spawning facilities.

Soils Good shape with minimal areas of slippage near Station #2.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	<u>1 (old)</u>
	Number of droppings	<u>0</u>
Geese -----	Number seen on tide flats	<u>0</u>
	Number seen up creek	<u>0</u>
	Number of broods seen	<u>0</u>
Mallards ---	Number seen on tide flats	<u>6 at mouth</u>
	Number seen up creek	<u>0</u>
	Number of broods seen	<u>0</u>
Mergansers -	Number of broods seen	<u>0</u>
Bald Eagles-	Number seen along creek	<u>0</u>
	Number of nests seen and location	<u>0</u>
Seals -----	Number seen at mouth of stream	<u>0</u>
Tide flats -	Estimate length along beach	<u>600 feet</u>
	Estimate depth out from beach	<u>200 feet</u>
	Eel grass present on what percent of flats	<u>0</u>

STREAM INVENTORY FORM

Name: Wolf Creek

Number: 101-51-50

Observers: Dinneford, Joyner

Date: 8-5-73

Temperature: 56°

Weather: Partly cloudy - cool

Station No.

Pool Size/Type

Riffle Type
Width-Depth

Pool Riffle
Frequency

Bottom Type
(Riffle)

Color/Turbidity

Velocity

Flow (C.F.S.)

Temp. (°F.)

pH

Fry Abundance

Benthos
Sample No.

Higher Plant
Class

Aquatic Veg.
Density

Ident.

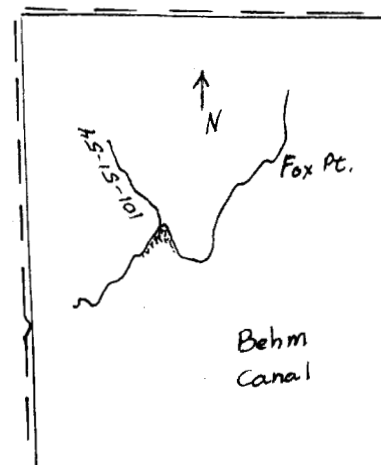
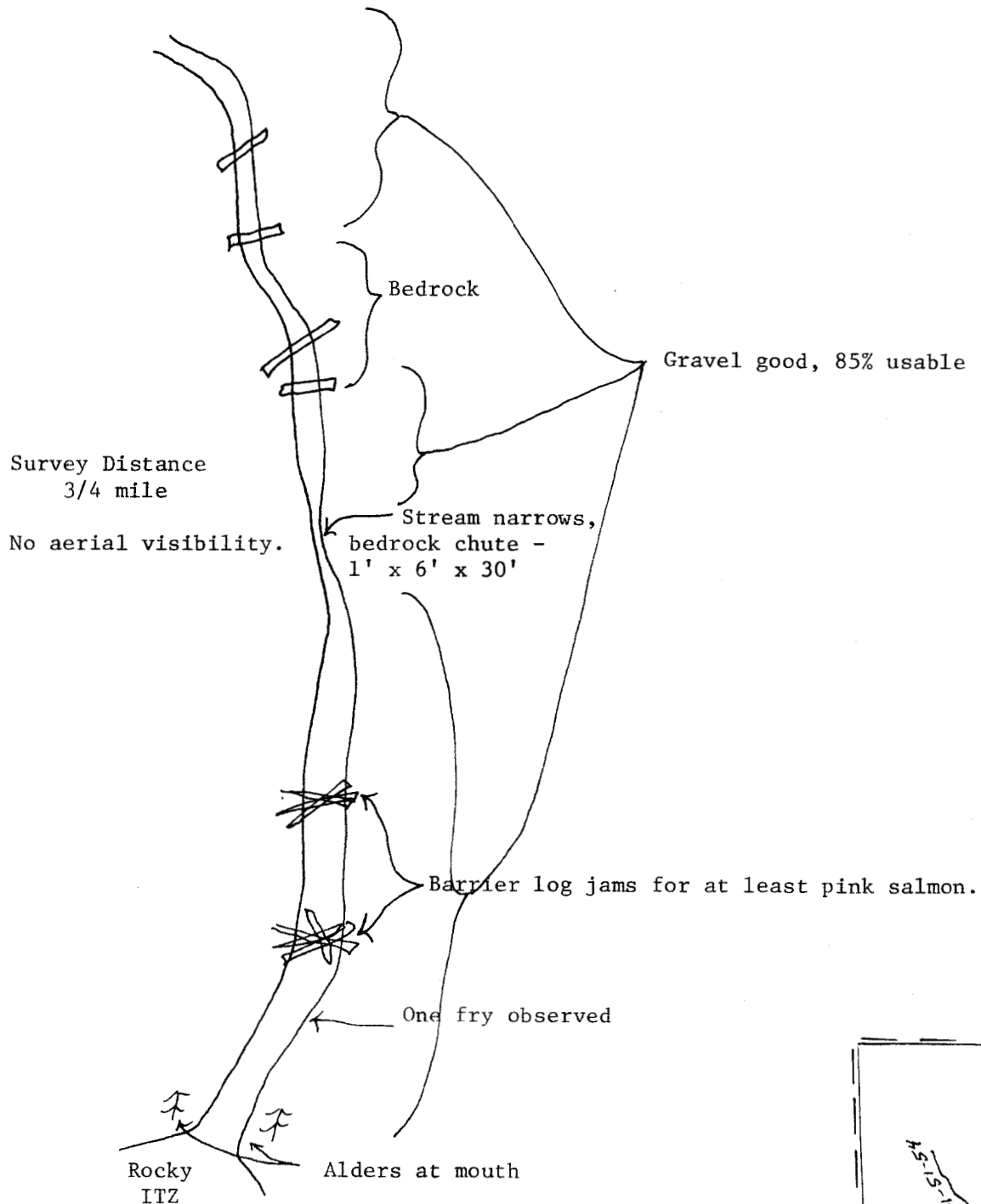
(1) Mosses

(2) Algae

1	2	3	4												
2/2	2/2	2/2	2/2												
33'W 1'D	20'W 2'D	46'W 10"D	30'W 1'D												
2	2	2	3												
4/5	4/5	4/6	4/6												
2/1	2/1	2/1	2/1												
2	2	2	2												
36															
52°	52°	52°	52°												
5	5	5	5												
1-1 3-3		1-3 2-1 4-4													
1	0	0	0												
2	2	2	2												
2	2	2	2												
1	1	1	1												

General Remarks (rehab., land use, barriers, log jams, etc.):

101-51-54
Dinneford, Joyner
8-5-73



Name _____ Catalog No. 101-51-54
 Latitude N 55° 15' 29" WR No. -
 Longitude W 131° 05' 33" K No. -
 Geodetic Map No. Ketchikan B-4 Work Area Ketchikan
 Location S.W. Fox Pt. 1 mile (Behm Canal) Watershed Length 2 miles
 Drainage Area of Watershed _____
 Water Supply Type Muskeg, precipitation

Trails & Survey Routes Walking easy along stream channel.

Aerial Survey Notes No visibility, discolored water and vegetation growing to bank.

Anchorage Fair for small crafts off mouth in fair weather.

Tide Stage When Surveyed 1st half ebb.

FISHERY RESOURCES

Commercial Fisheries Unknown - no record. One unidentified fry observed.

Escapement Spawning area: 2207 m² (3960'x8'x75% ASA)

Species Composition Unknown

Timing Unknown

Schooling areas None

Shellfish Potential Rocky I.T.Z.

Sport Fisheries Limited for cutthroat

Land Use at Present None

History of Land Use None

Rehabilitation Potential Log jam removal 1/4 mile upstream would allow pinks easy access to better part of stream.

Soils Banks steep, soils stable.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	0
	Estimate depth out from beach	0
	Eel grass present on what percent of flats	0



Mouth of 101-54-56 at high tide.

To lake source

101-51-56

8-4-73

Dinneford, Joyner

Station #4

Gravel looks very good, the stream flowing through "park-like" area, large cedar and spruce on the banks.

Survey distance = 1-1/4 mi

Beaver sign.

Station #3

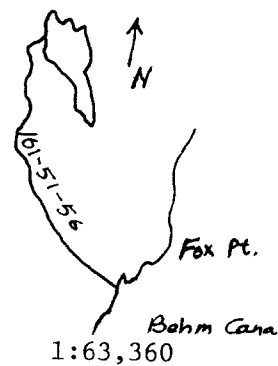
Station #1

Cascades, two falls that may block pinks - swift water through 40' vertical banks.

Station #1

ITZ Rocky

- 61 -



Name _____ Catalog No. 101-51-56
 Latitude N 55° 15' 12" WR No. _____
 Longitude W 131° 04' 48" K No. _____
 Geodetic Map No. Ketchikan B-4 Work Area Ketchikan
 Location SW Fox Pt. 1/4 mi. (Behm Canal) Watershed Length 2 miles
 Drainage Area of Watershed _____
 Water Supply Type Lake

Trails & Survey Routes Walking along lower stream difficult, above station 2 excellent.
 Aerial Survey Notes Water quite dark and vegetation grows to bank along most of length.
 Anchorage Rock directly off mouth offers little protection - makes approach difficult.
 Tide Stage When Surveyed 1st half ebb.

FISHERY RESOURCES

Commercial Fisheries Pink active off mouth - many coho trapped all along distance.
 Escapement Unknown. (above Station #2 facilities for spawning excellent)
(1-1/4 mi. L x 25' W x 50% ASA) Spawning area: 7664 m²
 Species Composition Percentages unknown
 Timing Possibly early.
 Schooling areas Very poor. Some potential in ITZ
 Shellfish Potential Rocky ITZ. 100%
 Sport Fisheries Cutthroat and Dolly Varden fry trapped.
 Land Use at Present None
 History of Land Use None
 Rehabilitation Potential Two falls between #1 and #2 may stop pink salmon from upstream area.
 Soils Bedrock up to Station #2 with some downslope movement above #2 very level banks, no problem.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	0
	Estimate depth out from beach	0
	Sea grass present on what percent of flats	0

STREAM INVENTORY FORM

Observers: Dinneford, Joyner

Date: 8-4-73

Temperature: 57°

Weather: Overcast

Name: _____

Number: 101-51-56

Station No.

Pool Size/Type

Riffle Type
Width-Depth

Pool Riffle
Frequency

Bottom Type
(Riffle)

Color/Turbidity

Velocity

Flow (C.F.S.)

63

Temp. (°F.)

pH

Fry Abundance

Benthos
Sample No.

Higher Plant
Class

Aquatic Veg.
Density
Ident.

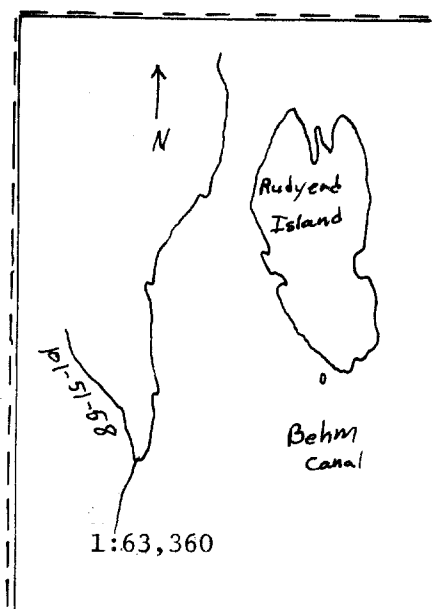
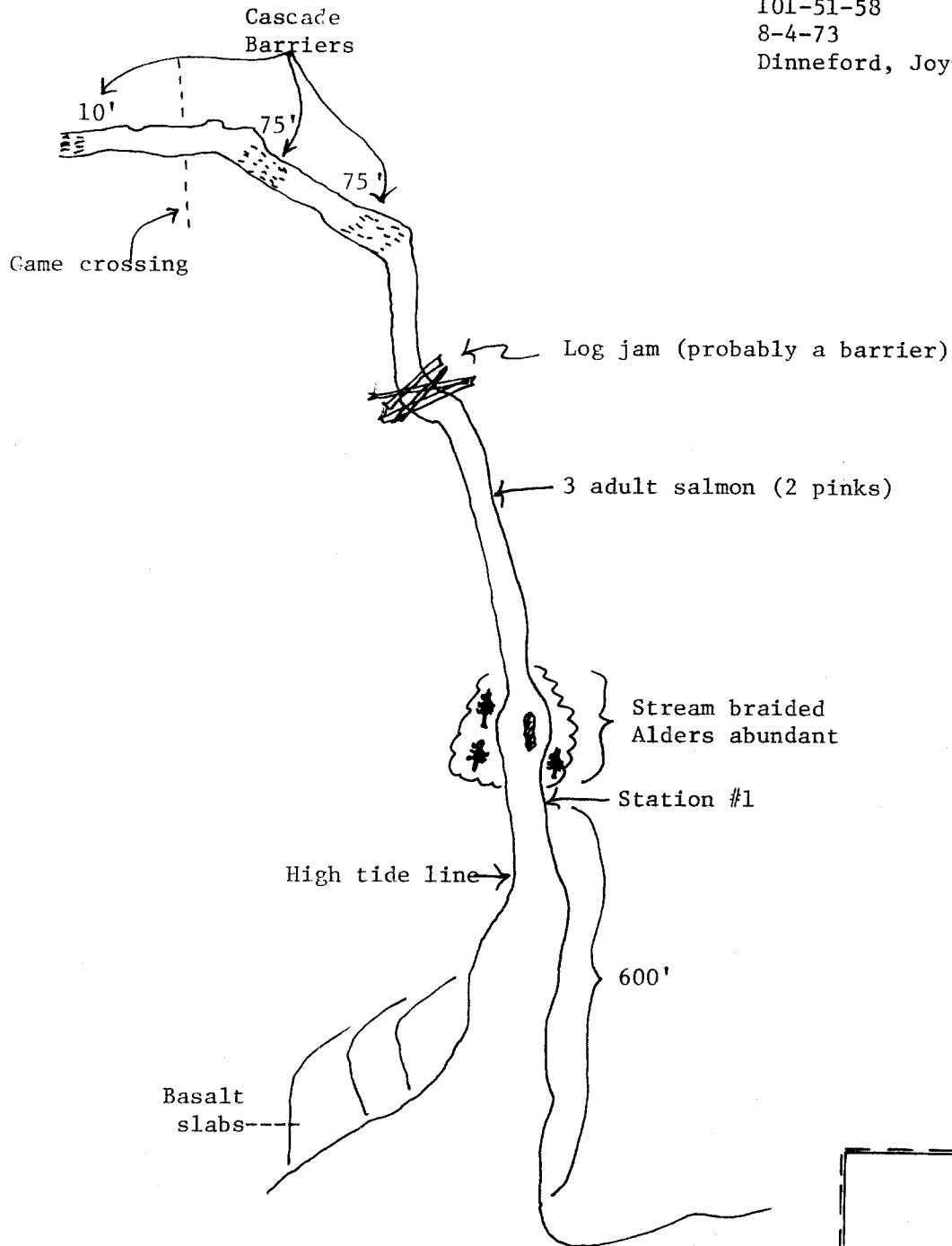
(1) Mosses

(2) Algae

1	2	3	4												
3/2	1/1	1/1	1/3												
34'W 7"D	26'W 10"D	28'W 8"D	24'W 6"D												
3	3	2	3												
4/6	6/4	6/4	4/1												
2/1	3/1	3/1	3/1												
2	2	2	2												
13.4															
58°	58°	58°	58°												
5	5	5	5												
1-1 4-2	4-2	1-11 2-15 4-6	0												
1	0	0	0												
2/3	3/2	3/2	1/3												
3	3	2	2												
1	1	1	1												

General Remarks (rehab., land use, barriers, log jams, etc.):

101-51-58
8-4-73
Dinneford, Joyner



Name " Catalog No. 101-51-58
Latitude N 55° 17' 15" WR No. -
Longitude W 131° 03' 34" K No. -
Geodetic Map No. Ketchikan B-4 Work Area Ketchikan
Location W.S.W. So. tip of Rudyerd Island Watershed Length 3 miles
Drainage Area of Watershed
Water Supply Type Muskeg pond at head

Trails & Survey Routes Walking difficult along stream, slippery boulders.

Aerial Survey Notes Good visibility especially in long ITZ.

Anchorage Fair for small craft in calm weather only.

Tide Stage When Surveyed 1st half of flood.

FISHERY RESOURCES

Commercial Fisheries Pink and possibly coho (pink positively)

Escapement Unknown, no record. Spawning area; 1324 m²
(3/8 mi x 18' W x 40% ASA)

Species Composition Percentages unknown.

Timing Early to middle (Aug. 1 to 31)

Schooling areas Intertidal offers some areas.

Shellfish Potential None, gravel and bedrock intertidal zone.

Sport Fisheries Poor. No fry observed. Few pools in upper surveyed distance.

Land Use at Present None

History of Land Use None

Rehabilitation Potential Removal of log jam below barrier falls could slightly enhance potential.

Soils Banks relatively steep bedrock, no downslope movement noted.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	0
	Estimate depth out from beach	0
	Eel grass present on what percent of flats	0

STREAM INVENTORY FORM

Name: _____

Number: 101-51-58

Observers: Dinneford, Joy

Date: 8-4-73

Temperature: 57°

Weather: Overcast - cool

Station No.

Pool Size/Type

Riffle Type
Width-Depth

Pool Riffle
Frequency

Bottom Type
(Riffle)

Color/Turbidity

Velocity

99
1. Flow (C.F.S.)

Temp. (°F.)

pH

Fry Abundance

Benthos
Sample No.

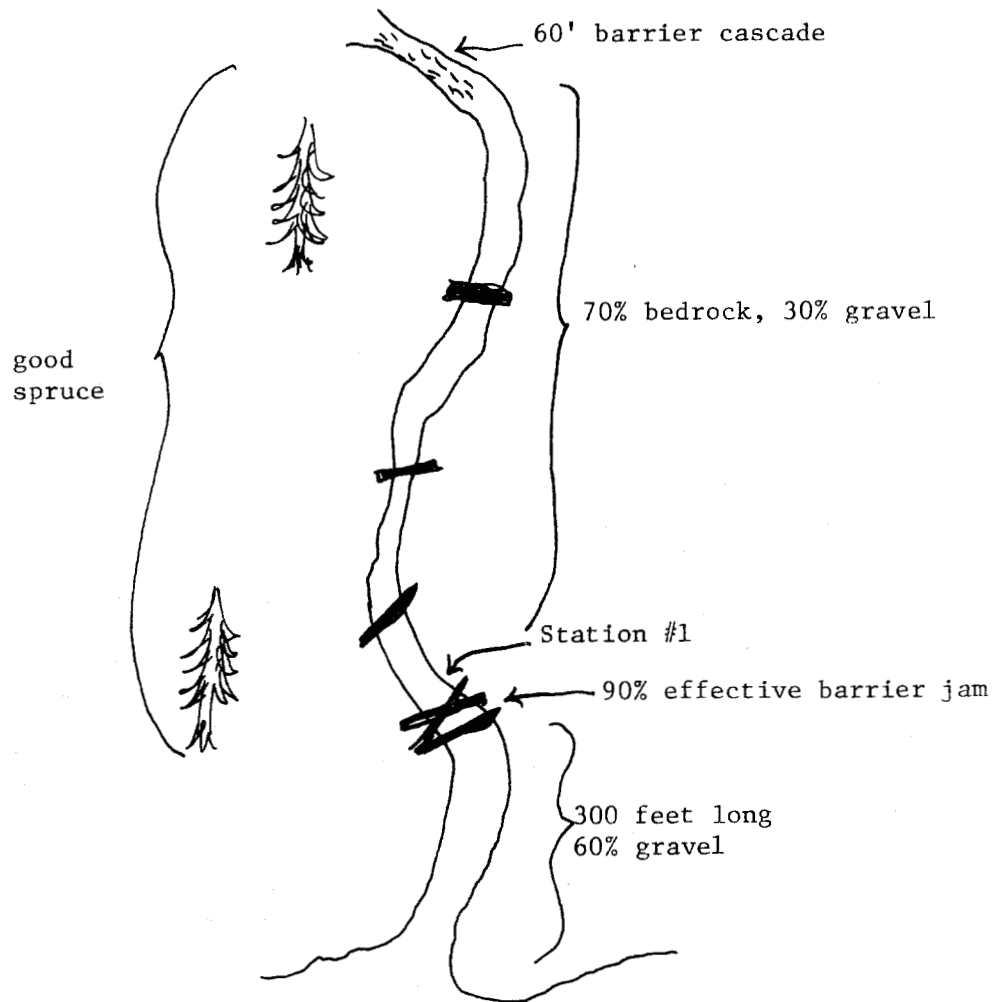
Higher Plant
Class

Aquatic Veg.
Density
Ident.
(1) Mosses
(2) Algae

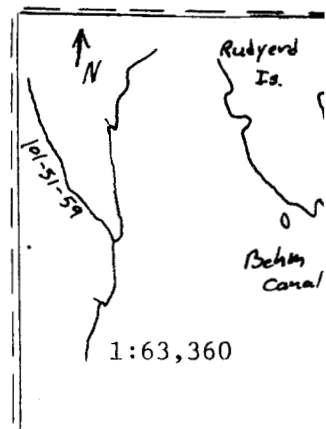
1															
2/2															
34'W 5"D															
3															
4/5															
2/1															
2															
12															
54°															
5															
3-1															
1															
2															
2															
2															

General Remarks (rehab., land use, barriers, log jams, etc.):

101-51-59
8-4-73
Dinneford, Joyner



Survey distance 1/8 mile to barrier cascade.



Name _____ Catalog No. 101-51-59
Latitude N 55° 17' 00" WR No. _____
Longitude W 131° 03' 26" K No. _____
Geodetic Map No. Ketchikan B-4 Work Area Ketchikan
Location W of S. end Rudyerd Island Watershed Length 1-3/4 mile
Drainage Area of Watershed _____
Water Supply Type Precipitation, springs

Trails & Survey Routes Fair walking in the stream.

Aerial Survey Notes Stream too small to be observed from air.

Anchorage Very poor off mouth (exposed directly to southeast winds).

Tide Stage When Surveyed 1st half of flood

FISHERY RESOURCES

Commercial Fisheries No fry or adult fish observed.

Escapement No record. Spawning area: 150 m² (300'x9'x60% ASA)

Species Composition Unknown

Timing Unknown

Schooling areas None observed.

Shellfish Potential Intertidal rocky, sharp drop off

Sport Fisheries No fry observed.

Land Use at Present None

History of Land Use None

Rehabilitation Potential Cascade too extensive to build a ladder on.

Soils Stable.

GATE RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	<u>0</u>
	Number of droppings	<u>0</u>
Geese -----	Number seen on tide flats	<u>0</u>
	Number seen up creek	<u>0</u>
	Number of broods seen	<u>0</u>
Mallards ---	Number seen on tide flats	<u>0</u>
	Number seen up creek	<u>0</u>
	Number of broods seen	<u>0</u>
Mergansers -	Number of broods seen	<u>1 (4 young)</u>
Bald Eagles-	Number seen along creek	<u>0</u>
	Number of nests seen and location	<u>0</u>
Seals -----	Number seen at mouth of stream	<u>0</u>
Tide flats -	Estimate length along beach	<u>0</u>
	Estimate depth out from beach	<u>0</u>
	Eel grass present on what percent of flats	<u>0</u>

STREAM INVENTORY FORM

Name: _____

Number: 101-51-59

Observers: Dinneford - Joyner

Date: 8-4-73

Temperature: 56°

Weather: Overcast - cool

Station No.

1

Pool Size/Type

2/2

Riffle Type
Width-Depth

9'W
4"D

Pool Riffle
Frequency

3

Bottom Type
(Riffle)

4/6

Color/Turbidity

2/2

Velocity

2

Flow (C.F.S.)

1.7

Temp. (°F.)

54°

pH

5

Fry Abundance

3-1

Benthos
Sample No.

1

Higher Plant
Class

2

Aquatic Veg.
Density

2

Ident.

(1) Mosses

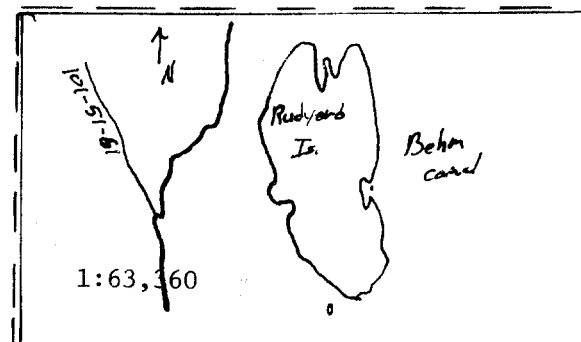
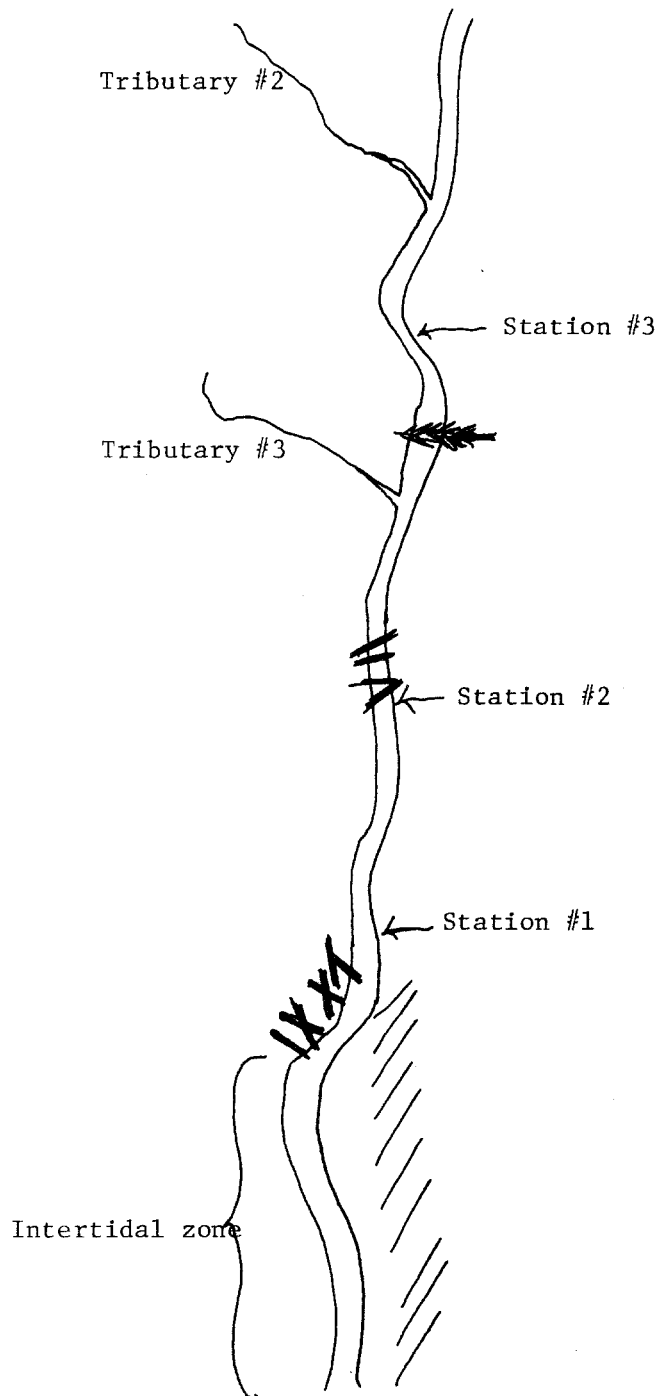
(2) Algae

1

General Remarks (rehab., land use, barriers, log jams, etc.):

Log jam at mouth.

101-51-61
8-4-73
Dinneford, Joyner



Name _____ Catalog No. 101-51-61
 Latitude N 55° 17' 30" WR No. _____
 Longitude W 131° 03' 24" K No. _____
 Geodetic Map No. Ketchikan B-4 Work Area Ketchikan
 Location Behm Canal, W. of Rudyerd Island Watershed Length 2 miles
 Drainage Area of Watershed _____
 Water Supply Type Springs, runoff

Trails & Survey Routes Walking easy in stream.

Aerial Survey Notes Visibility marginal, stream not large.

Anchorage Fair for small craft off mouth.

Tide Stage When Surveyed 1st half of flood.

FISHERY RESOURCES

Commercial Fisheries None observed, no record.

Escapement Unknown. Spawning area: 1987 m² (3564'x12'x50% ASA)

Species Composition Unknown

Timing Unknown

Schooling areas Very limited in ITZ

Shellfish Potential None, I.T.Z. all gravel, steep dropoff mouth.

Sport Fisheries Cutthroat, Dolly Varden

Land Use at Present None

History of Land Use None

Rehabilitation Potential Hemlock across stream between #2 and #3: removal could enhance stream.

Soils Some downslope movement in scattered locations.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	0
	Estimate depth out from beach	0
	Eel grass present on what percent of flats	0

STREAM INVENTORY FORM

Observers: Dinnerford, Joyner

Date: 8-4-73

Temperature: 53°

Weather: Overcast

Name: _____

Number: 101-51-61

Station No.

Pool Size/Type

Riffle Type
Width-Depth

Pool Riffle
Frequency

Bottom Type
(Riffle)

Color/Turbidity

Velocity

Flow (C.F.S.)

Temp. (°F.)

pH

Fry Abundance

Benthos
Sample No.

Higher Plant
Class

Aquatic Veg.
Density

Ident.

(1) Mosses

(2) Algae

1	2	3 (5/8 mile upstream)														
1/2	2/1	2/2														
15.5'W 3"D	10.5'W 6"D	10.5'W 6"D														
3	3	3														
4	4/6	4/6														
2/1	2/2	2/1														
2	2	2														
2.7																
53°	52°	52°														
5	5	5														
2-2																
3-1																
4-1	4-6	0														
1	0	0														
2	2/1	2/3														
3	3	3														
2	1	1														

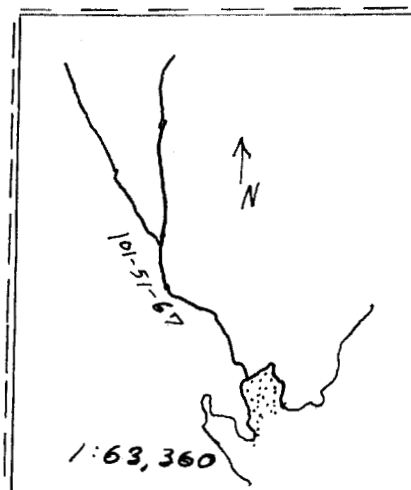
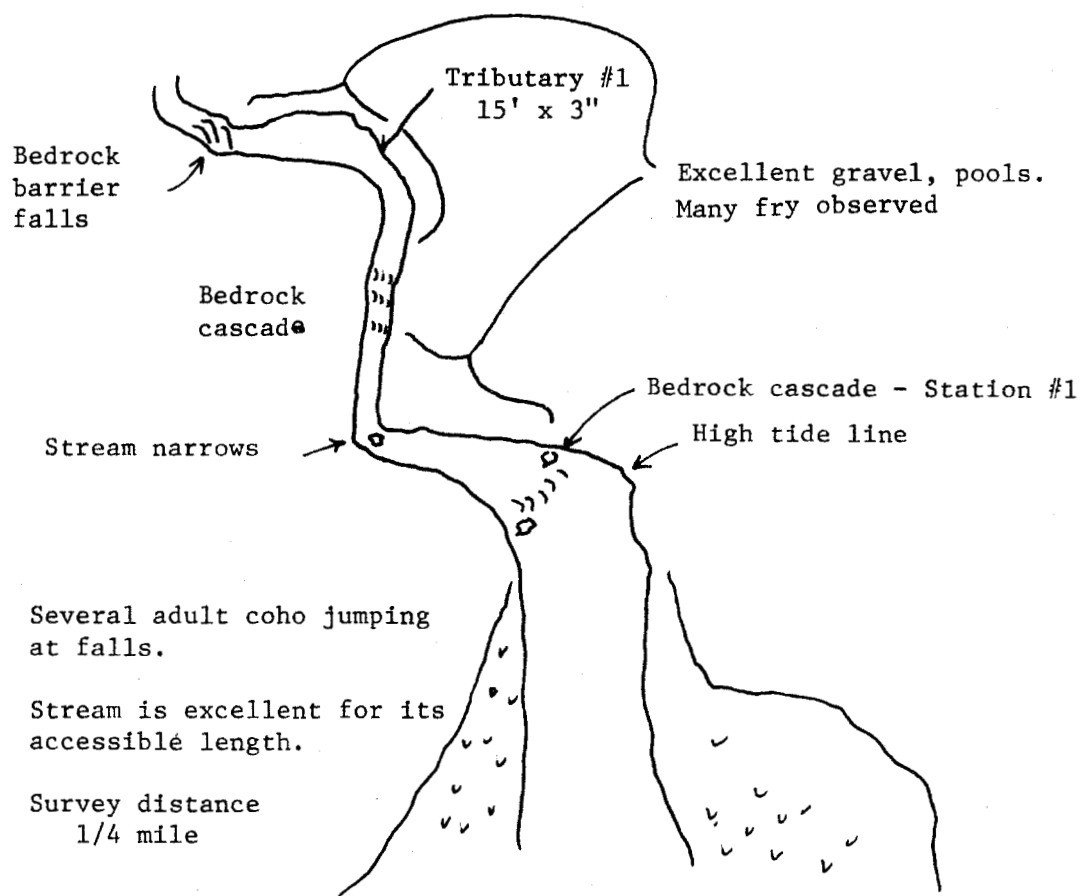
General Remarks (rehab., land use, barriers, log jams, etc.): No fry observed at all - offers jam possibilities for coho rehabilitation.

Narrow Pass Creek

101-51-67

7-27-73

Dinneford - Joyner



Name Narrow Pass Creek Catalog No. 101-51-67
 Latitude N 55° 19' 07" WR No. 68
 Longitude W 131° 03' 06" K No. 68
 Geodetic Map No. Ketchikan B-4 Work Area Ketchikan
 Location W. shore Behm Canal, 2 mi. NW Rudyard Island Watershed Length 5.5 miles
 Drainage Area of Watershed _____
 Water Supply Type Precipitation.

Trails & Survey Routes Easy walking at low water along stream banks.

Aerial Survey Notes Excellent visibility below and along stream banks.

Anchorage Poor anchorage off mouth in shallow lagoon.

Tide Stage When Surveyed 1st half of ebb.

FISHERY RESOURCES

Commercial Fisheries Pink, chum, coho - coho observed 7-27-73 jumping at barrier falls.

Escapement 1947, 500 pink; 100 chum; 100 coho.

Spawning area: 4169 m² (1320'x40'x85% ASA)

Species Composition 70% pink, 15% coho, 15% chum.

Timing Late - September to October.

Schooling areas Off mouth in lagoon.

Shellfish Potential No crab taken in set off mouth in 10 fathom. Potentially fair sand flats.

Sport Fisheries No trout observed. Should be fine sportcasting for coho.

Land Use at Present None

History of Land Use None

Rehabilitation Potential Below falls no rehab. required. Above falls should be looked at aerially.

Soils Very stable. A bit of bedrock in stream bed.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	1 set of tracks
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	1
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	1/4 mile
	Estimate depth out from beach	40 feet
	Eel grass present on what percent of flats	<15%

STREAM INVENTORY FORM

Observers: Dinneford, Joyner

Date: 7-27-73

Name: Narrow Pass Creek

Temperature: 64°

1/4 mi. to barrier falls.

Number: 101-51-67

Weather: Sunny

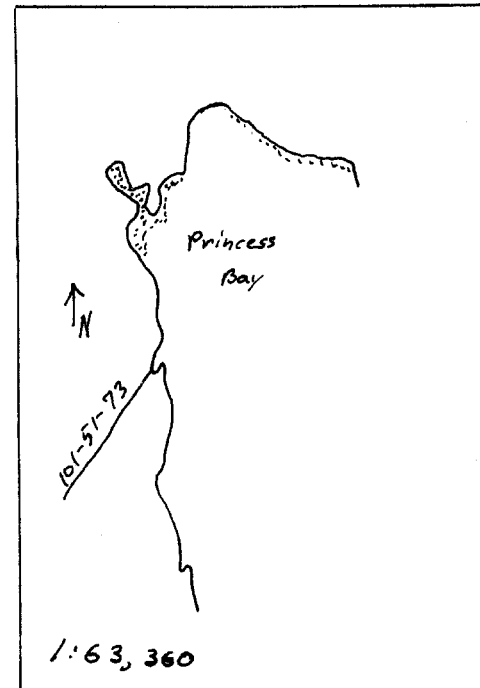
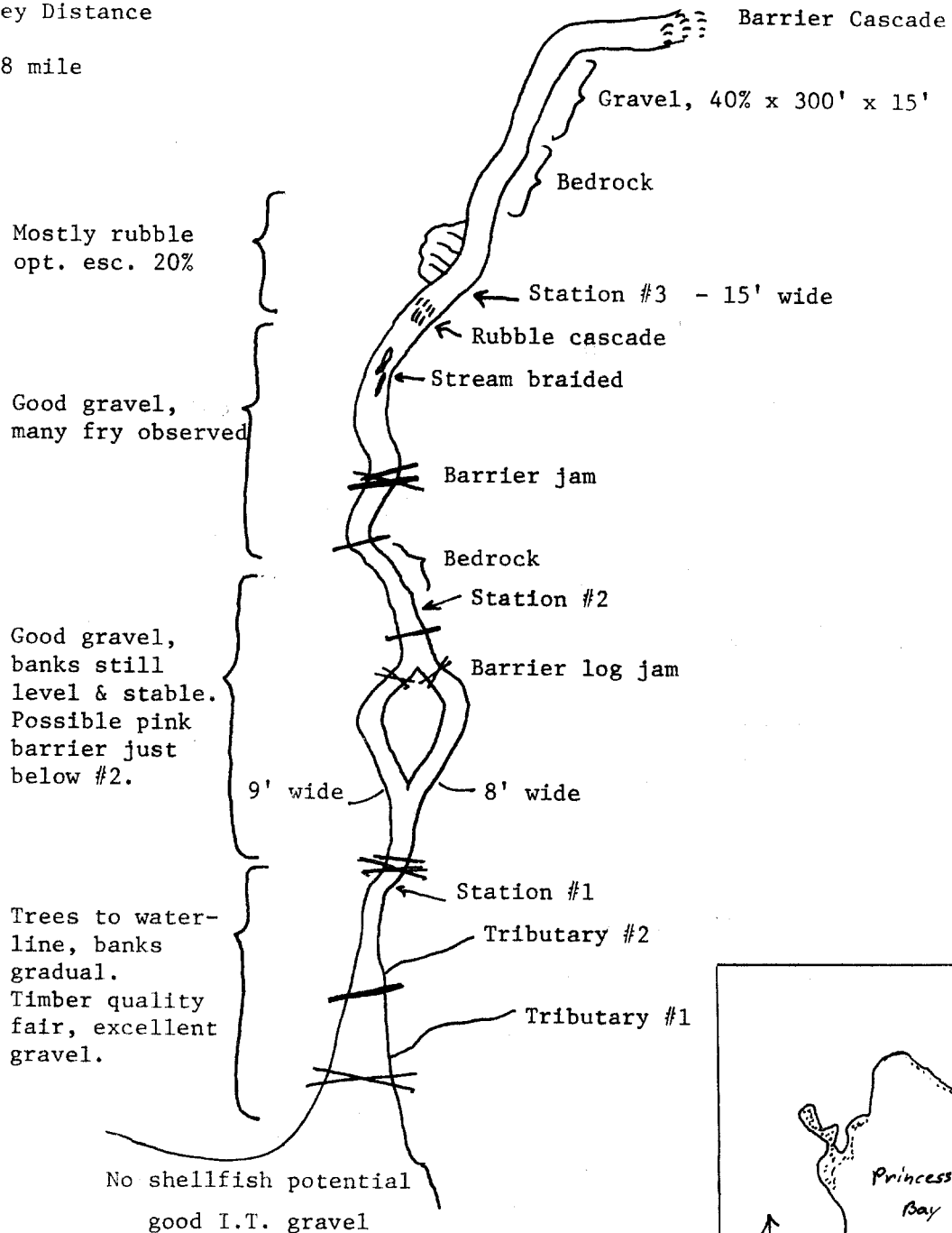
Station No.	1														
Pool Size/Type	1/2														
Riffle Type Width-Depth	34'W 15"D														
Pool Riffle Frequency	2														
Bottom Type (Riffle)	4														
Color/Turbidity	2/1														
Velocity	2														
Flow (C.F.S.)	26.0														
Temp. (°F.)	58°														
pH	5														
Fry Abundance	0														
Benthos Sample No.	1														
Higher Plant Class	1/2														
Aquatic Veg. Density	3														
Ident. (1) Mosses (2) Algae	1														

General Remarks (rehab., land use, barriers, log jams, etc.): No fry trapped, many observed. Adult coho jumping at barrier falls.

101-51-73
7-26-73
Dinneford-Joyner

Survey Distance

5/8 mile



Name _____ Catalog No. 101-51-73
Latitude W 55° 23' 21" WR No. _____
Longitude N 131° 02' 00" K No. _____
Geodetic Map No. Ketchikan B-4 Work Area Ketchikan
Location W shore of Princess Bay Watershed Length 3 miles
Drainage Area of Watershed _____
Water Supply Type Lakes

Trails & Survey Routes Easy walking along stream.

Aerial Survey Notes Visibility fair, best in lower half of area surveyed.

Anchorage Good off mouth. Excellent all weather bight 1/2 mile to south for small craft.

Tide Stage When Surveyed First half of ebb.

FISHERY RESOURCES

Commercial Fisheries Coho taken in fry trap.

Escapement Spawning area: 2529 m² (3300'x15'x55% ASA)

Species Composition No record. Potential pink utilization up to barrier below station #2.

Timing unknown.

Schooling areas A few pools present between #2 and #3.

Shellfish Potential None

Sport Fisheries Unknown, no fry observed.

Land Use at Present None

History of Land Use None

Rehabilitation Potential Excellent. Removal of two log jams below the barrier falls should be considered.

Soils Banks very gravelly, a bit of downslope movement at Station #3.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	1 nest 300 yds north of mouth.
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	0
	Estimate depth out from beach	0
	Eel grass present on what percent of flats	0

STREAM INVENTORY FORM

Name: _____

Number: 101-51-73

Observers: Dinneford - Joyner

Date: 7-26-73

Temperature: 62°

Weather: High clouds, sunny

Station No.

Pool Size/Type

Riffle Type
Width-Depth

Pool Riffle
Frequency

Bottom Type
(Riffle)

Color/Turbidity

Velocity

Flow (C.F.S.)

Temp. (°F.)

pH

Fry Abundance

Benthos
Sample No.

Higher Plant
Class

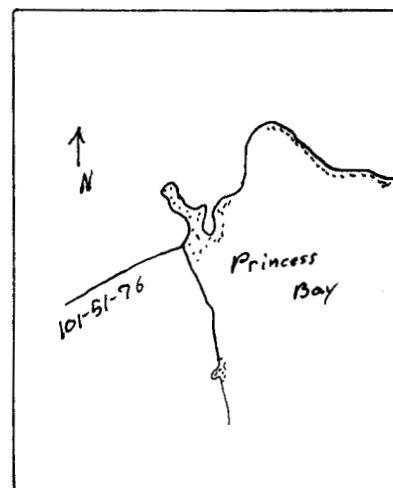
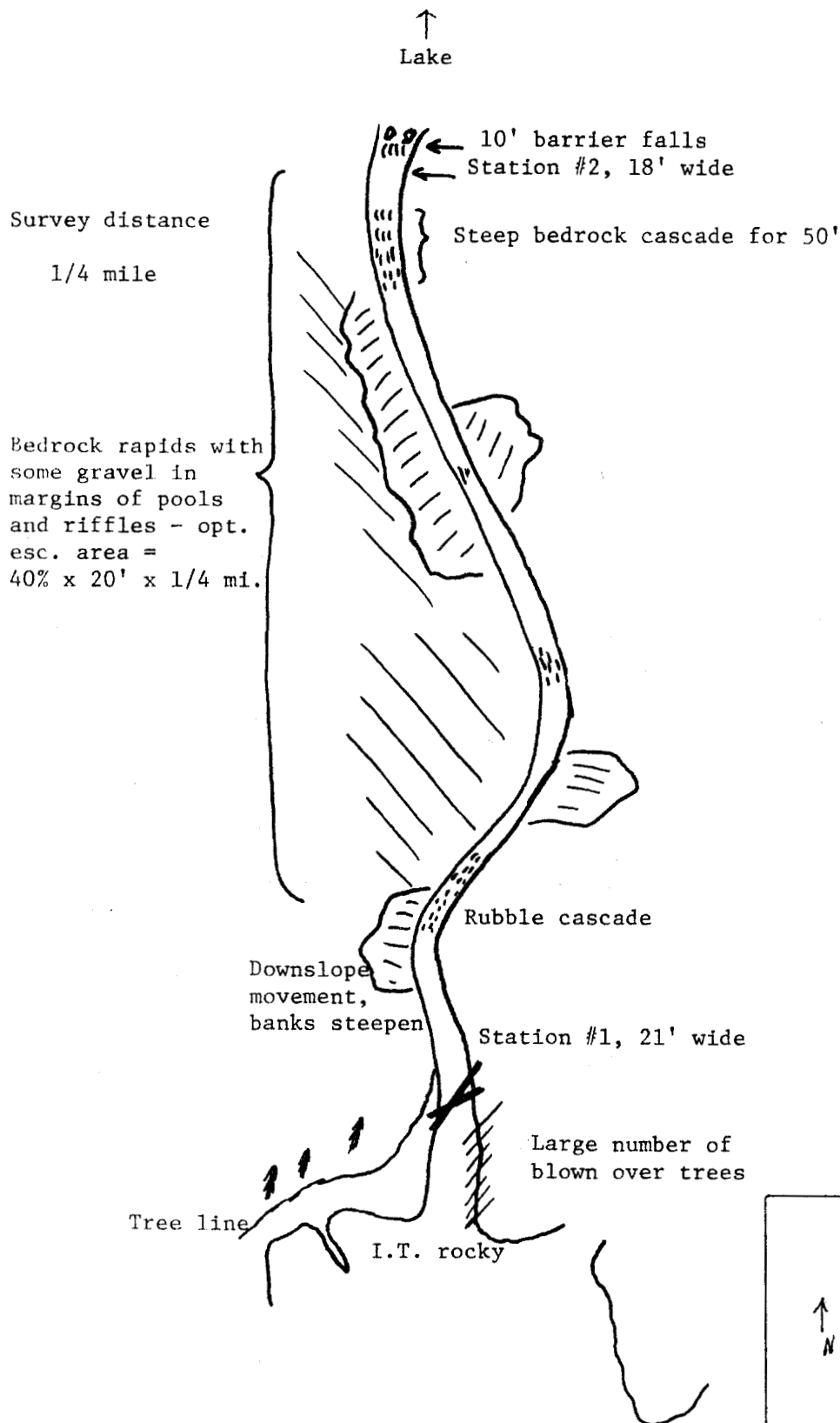
Aquatic Veg.
Density
Ident.

(1) Mosses
(2) Algae

1	2	3																	
3/2	3/2	3/2																	
20'W 4"D	13'W 10"D	15'W 8"D																	
3	3	2																	
4	6	4																	
2/1	2/1	2/1																	
2	2	2																	
4.7																			
61°	61°	61°																	
5	5	5																	
1-1 3-1	1-5 3-1	0																	
1	0	0																	
1	1	1																	
1	1	2																	
2	2	1																	

General Remarks (rehab., land use, barriers, log jams, etc.): Water level up 3". Rehab. warrented for two log barriers below barrier falls.

101-51-76
7-26-73
Dinneford, Joyner



Name _____ Catalog No. 101-51-76
Latitude W 55° 24' 05" WR No. _____
Longitude N 131° 02' 18" K No. _____
Geodetic Map No. Ketchikan B-4 Work Area Ketchikan
Location NW corner Princess Bay Watershed Length 4 miles
Drainage Area of Watershed _____
Water Supply Type Lake and muskeg

Trails & Survey Routes Walking to barrier falls fairly difficult along stream side.

Aerial Survey Notes Poor visibility except in ITZ.

Anchorage Fair at mouth for small craft, mostly exposed to southeast.

Tide Stage When Surveyed 1st half of ebb.

FISHERY RESOURCES

Commercial Fisheries Coho taken in fry trap

Escapement No record. Spawning area: 981 m² (1320'x20'x40% ASA)

Species Composition unknown

Timing Unknown

Schooling areas Very limited off mouth in ITZ.

Shellfish Potential Shrimp larva observed in ITZ. Sandy shelf off mouth (combines with Alava #4)

Sport Fisheries Cutthroat fry observed. Sport fishing very limited.

Land Use at Present None

History of Land Use None

Rehabilitation Potential No work required in the productive area of the stream.

Soils Instability noticed above station #1 to barrier falls.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	<u>0</u>
	Number of droppings	<u>0</u>
Geese -----	Number seen on tide flats	<u>0</u>
	Number seen up creek	<u>0</u>
	Number of broods seen	<u>0</u>
Mallards ---	Number seen on tide flats	<u>1 female</u>
	Number seen up creek	<u>0</u>
	Number of broods seen	<u>0</u>
Mergansers -	Number of broods seen	<u>0</u>
Bald Eagles-	Number seen along creek	<u>0</u>
	Number of nests seen and location	<u>0</u>
Seals -----	Number seen at mouth of stream	<u>3</u>
Tide flats -	Estimate length along beach	<u>300 feet</u>
	Estimate depth out from beach	<u>30 feet</u>
	Eel grass present on what percent of flats	<u>0</u>

STREAM INVENTORY FORM

Observers: Dinneford - Joyner

Date: 7-26-73

Temperature: 65°

Weather: Partly cloudy

Barrier falls 1/4 mi. upstream.

Name: Alava #5

Number: 101-51-76

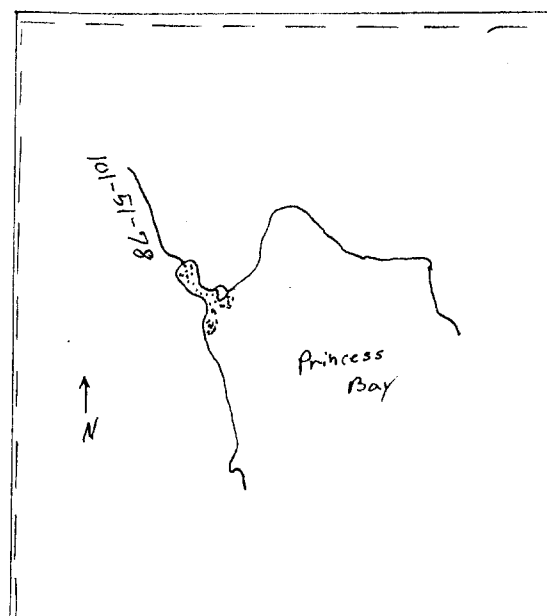
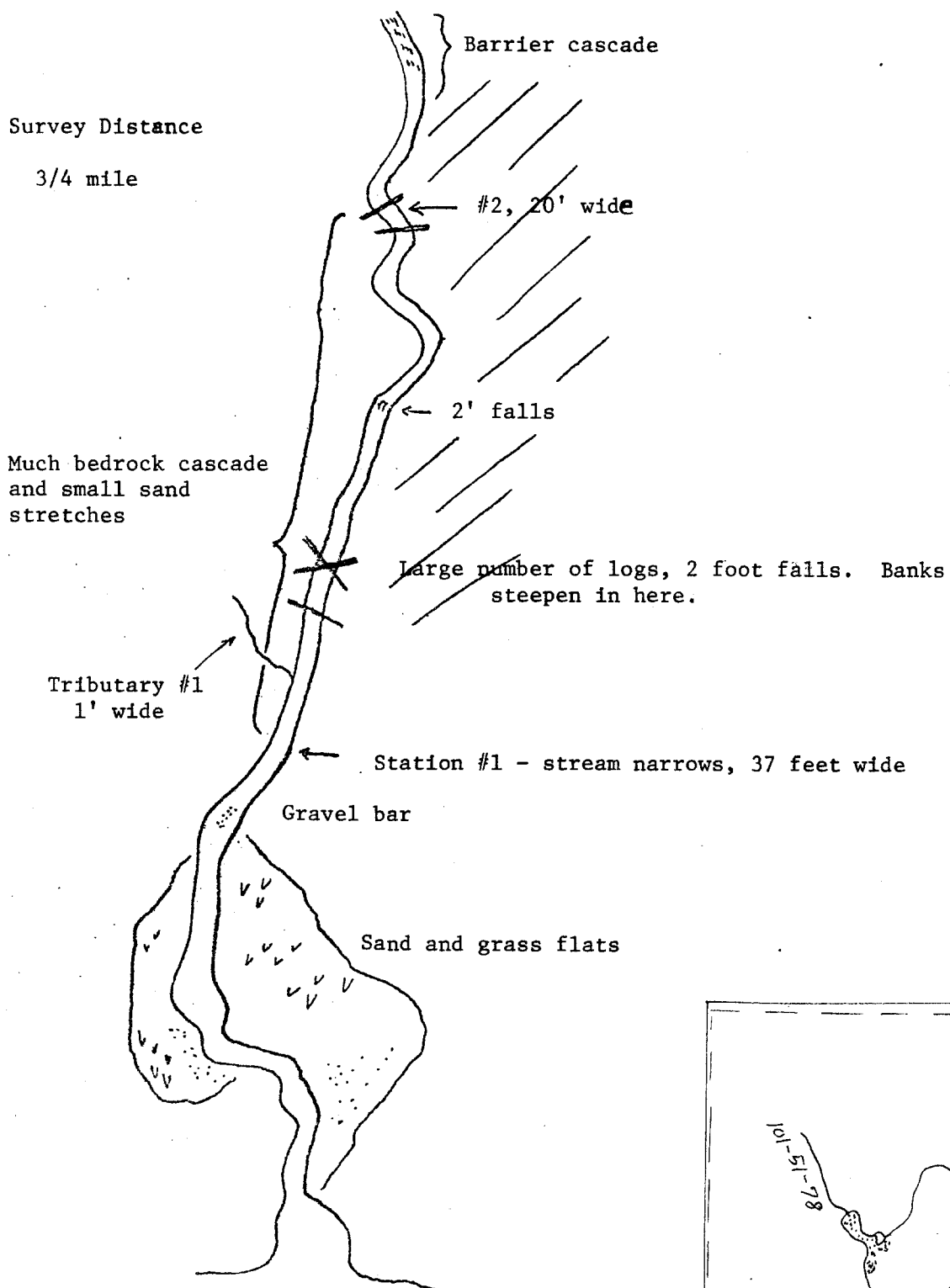
Station No.	1	2													
Pool Size/Type	2/1	2/1													
Riffle Type Width-Depth	21'W 1'D	18'W 3'D													
Pool Riffle Frequency	3	3													
Bottom Type (Riffle)	4/5	4/6													
Color/Turbidity	1/2	2/1													
Velocity	2	3													
Flow (C.F.S.)	28.8														
Temp. (°F.)	59°	59"													
pH	5	5													
Fry Abundance	3-1 4-1	-													
Benthos Sample No.	1	0													
Higher Plant Class	1	1													
Aquatic Veg. Density	3	2													
Ident.															
(1) Mosses															
(2) Algae	1	1													

General Remarks (rehab., land use, barriers, log jams, etc.):

(

(

Cripple Creek
101-51-78
7-24-73
Dinneford, Joyner



Name Cripple Creek Catalog No. 101-51-78
Latitude N. 55° 24' 22" WR No. 69
Longitude W. 131° 2' 24" K No. 69
Geodetic Map No. Ketchikan - B-4 Work Area Ketchikan
Location N.W. corner Princess Bay Watershed Length 5 miles
Drainage Area of Watershed _____
Water Supply Type Muskeg

Trails & Survey Routes Walking easy in lower stream - upper area looks like
torrential flows occur.

Aerial Survey Notes Very limited except at mouth and I.T. area.

Anchorage Small craft can enter lower I.T. at low water.

Tide Stage When Surveyed 1st half of flood.

FISHERY RESOURCES

Commercial Fisheries Pink salmon, a few coho observed 7-24-73.

Escapement 1940, 1,000 pink, 200 chum; 1941, 10,000 pink,; 1947, 2 chum, 3 coho;
1951, 3,700 pink, 55 chum, 1 red; 1952, 80 pink,; 1954, 2,000 pink, 95 chum; 1956, 20

Spawning area: 5435 m² (3900'x30'x50% ASA) (pink, 150 chum.)

Species Composition: 90% pink, 10% chum.

Timing Late. September, October

Schooling areas Limited in I.T. lagoon.

Shellfish Potential Fair mudflats exposed at low tide. Shrimp larvae observed
in lower I.T.

Sport Fisheries Trout observed, none taken in fry traps. Many good looking pools
above Station #1.

Land Use at Present None

History of Land Use None

Rehabilitation Potential Major spawning areas free from debris.

Soils Unstabilities from mid stations #1 and #2 upstream.

WATER RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	1
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Wrens -----	Number of broods seen (females, at mouth)	3
Gold Eagle -	Number seen along creek	0
	Number of nests seen and location	0
Osprey -----	Number seen at mouth of stream	0
Tide Flats -	Estimate length along beach	500 ft.
	Estimate depth out from beach	30 ft.
	Est grass present on what percent of flats	0%

STREAM INVENTORY FORM

Name: Cripple Creek

Number: 101-51-78

Observers: Dinneford - Joyner

Date: 7-24-73

Temperature: 66°

Weather: Light rain

Station No.	1	2													
Pool Size/Type	0	1/2													
Riffle Type	37'W	20'W													
Width-Depth	10"D	24"D													
Pool Riffle Frequency	3	1													
Bottom Type (Riffle)	1/4	4/6													
Color/Turbidity	1/2	1/2													
Velocity	2	2													
Flow (C.F.S.)	22														
Temp. (°F.)	51°	51°													
pH	5	5													
Fry Abundance															
Benthos Sample No.	1	0													
Higher Plant Class	1	2													
Aquatic Veg. Density	3	2													
Ident.															
(1) Mosses															
(2) Algae	2	1													

General Remarks (rehab., land use, barriers, log jams, etc.): Good pink area in ITZ. No fry observed; adults (coho?) between #1 and #2.

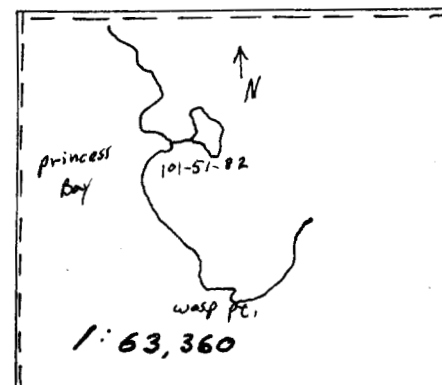
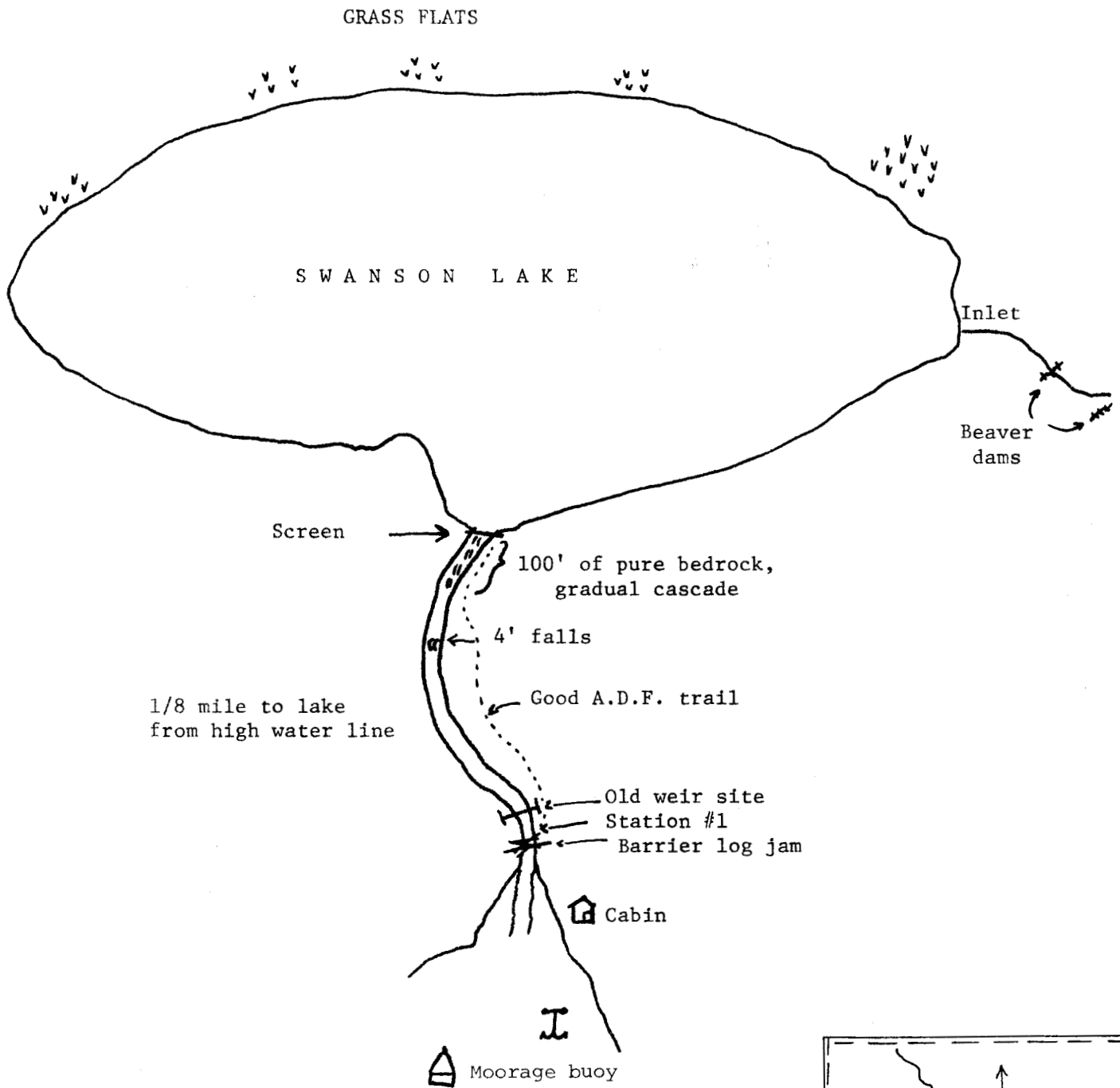
PEAK ESCAPEMENT RECORD

Princess Bay, N.W. corner
101-51-78

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
9-14-40	1,000	200		Good. 4000 fish off mouth..
10-6-41	10,000			
10-12-46				Most salmon @ mouth of stream.
10-4-47		2	3 coho	
9-15-51	3,200	55	1 red	2-3000 off mouth. 500 dead pink.
8-14-52	80			
9-19-54	1,600	75		400 dead pink, 20' dead chum.
9-14-56	200	150		200 pink at mouth.
9-7-66	250			Poor visibility. Stream hi & dark.

- 85 -

101-51-82
Swanson's Creek
7-25-73
Dinneford, Joyner



Name Swanson's Creek Catalog No. 101-51-82
Latitude N 55° 23' 33" WR No. _____
Longitude W 130° 59' 12" K No. 70
Geodetic Map No. Ketchikan B-4 Work Area Ketchikan
Location E.Shore Princess Bay Watershed Length 1/2 mile
Drainage Area of Watershed _____
Water Supply Type Lake

Trails & Survey Routes 1/8 mile trail on south stream bank.

Aerial Survey Notes No visibility.

Anchorage There is a moorage buoy just off the mouth of the creek.

Tide Stage When Surveyed 2nd half of ebb.

FISHERY RESOURCES

Commercial Fisheries Coho fingerlings planted after poisoning of the lake

Escapement No record. Spawning area: 294 m²
(1/8 mi x 12' x 40%)

Species Composition No escapement observations on record.

Timing Unknown

Schooling areas None

Shellfish Potential None

Sport Fisheries Cutthroat trapped at Station #1, observed at lake inlet, and caught just below lake.

Land Use at Present None

History of Land Use ADF&G had a weir (downstream) after planting 90,000 sockeye and coho in 1959.

Rehabilitation Potential A small system (22 acre lake) but a minimum of work would allow fish upstream.

Soils Stable.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	2 at mouth
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	1
Tide flats -	Estimate length along beach	0
	Estimate depth out from beach	0
	Eel grass present or what percent of flats	0

STREAM INVENTORY FORM

Name: Swanson's Creek

Number: 101-51-82

Observers: Dinneford, Joyner

Date: 7-25-73

Temperature: 60°

Weather: Light Rain

Station No.

Pool Size/Type

Riffle Type
Width-Depth

Pool Riffle
Frequency

Bottom Type
(Riffle)

Color/Turbidity

Velocity

Flow (C.F.S.)

Temp. (°F.)

pH

Fry Abundance

Benthos
Sample No.

Higher Plant
Class

Aquatic Veg.
Density
Ident.

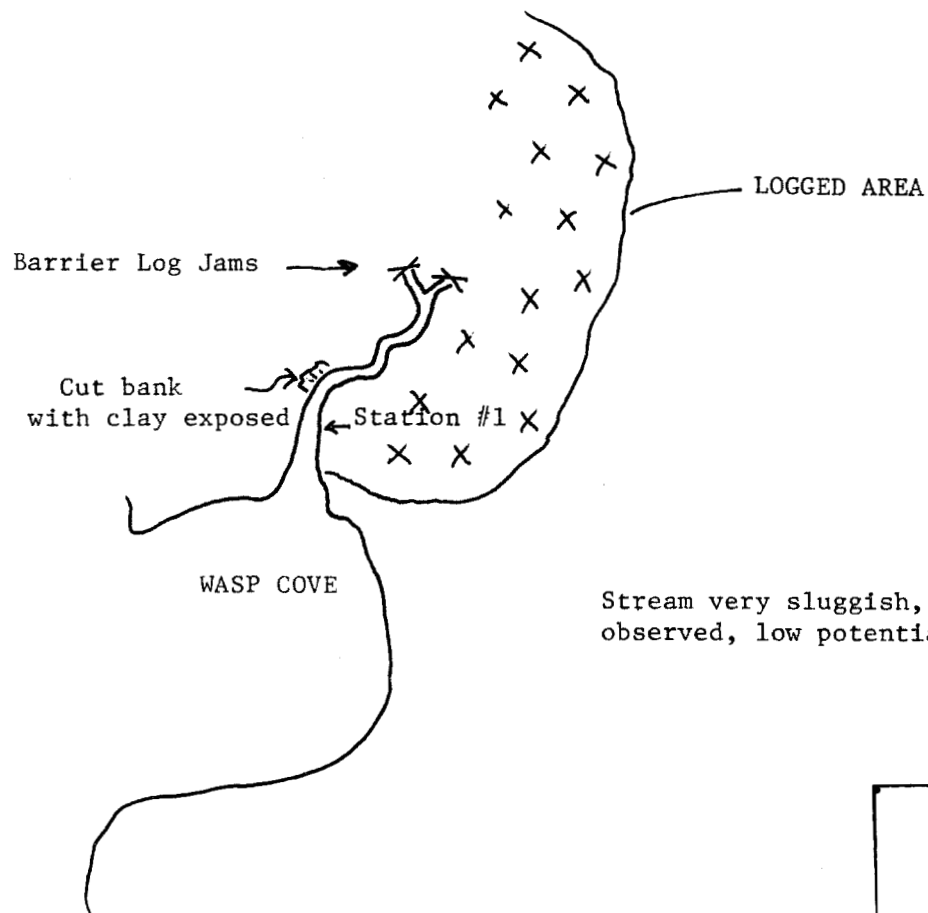
(1) Mosses
(2) Algae

1															
3/3															
14'W 2"D															
3															
4/5															
2/1															
2															
1.5															
62°															
5															
4-2															
1															
2															
3															
2															

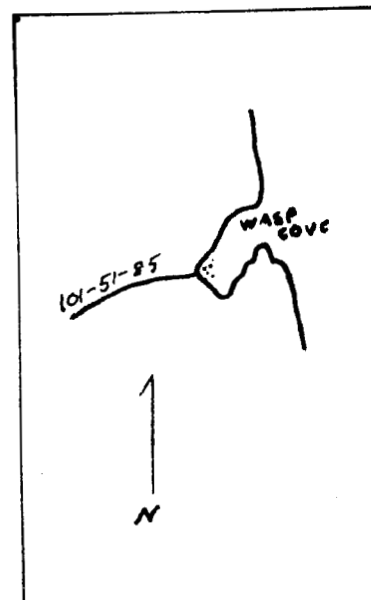
General Remarks (rehab., land use, barriers, log jams, etc.): Log jam above ITZ. Rehab. possible for coho production.

Wasp Creek
101-51-85
7-28-73

SURVEY DISTANCE 1/16 mile



Stream very sluggish, few fry
observed, low potential.



Name Wasp Creek Catalog No. 101-51-85
Latitude N 55° 25' 32" WP No. _____
Longitude W 130° 59' 07" K No. _____
Geodetic Map No. Ketchikan B-3 Work Area Ketchikan
Location W. Behm Canal, 5 mi so Ella Creek Watershed Length 1 mile
Drainage Area of Watershed _____
Water Supply Type Muskeg, precipitation

Trails & Survey Routes Walking along streambanks okay.

Aerial Survey Notes Visibility poor, stream quite small.

Anchorage Good. Five to seven fathoms in soft bottom.

Tide Stage When Surveyed First half of ebb.

FISHERY RESOURCES

Commercial Fisheries Unknown. No salmonid fry observed for positive identification.

Escapement Unknown. No records. Limited rearing and spawning potential.

Species Composition Unknown

Timing Unknown

Schooling areas Wasp Cove.

Shellfish Potential None

Sport Fisheries Cutthroat fry trapped. Valuable as a rearing area, fishing value low.

Land Use at Present None

History of Land Use N.W. bank of stream logged within past 10 to 15 years.

Rehabilitation Potential Low. Much clay in stream (as bedrock) and velocity sluggish. Log jam 200 yds. above high tide.

Soils Flat banks. Much clay being carried as bedload as well as being found along banks and bottom as bedrock.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	6
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	0
	Estimate depth out from beach	0
	Eel grass present on what percent of flats	0

STREAM INVENTORY FORM

Name: Wasp Creek

Number: 101-51-85

Observers: Dinneford, Joyner

Date: 7-28-73

Temperature: 64°

Weather: Overcast

Station No.

1

Pool Size/Type

2/2

Riffle Type
Width-Depth

11'W
8"D

Pool Riffle
Frequency

1

Bottom Type
(Riffle)

4/3

Color/Turbidity

1/1

Velocity

1

Flow (C.F.S.)

1.9

Temp. (°F.)

55°

pH

5

Fry Abundance

4-1

Benthos
Sample No.

1

Higher Plant
Class

2

Aquatic Veg.
Density
Ident.

3 2

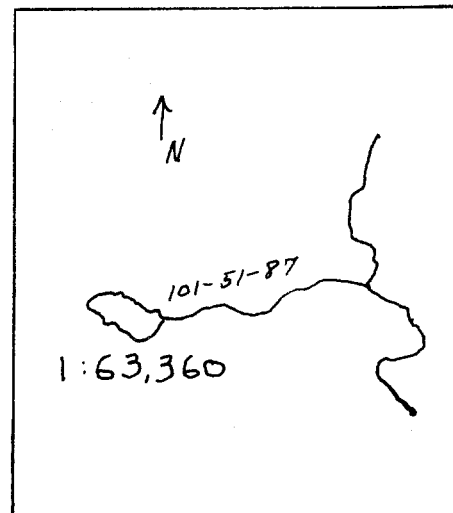
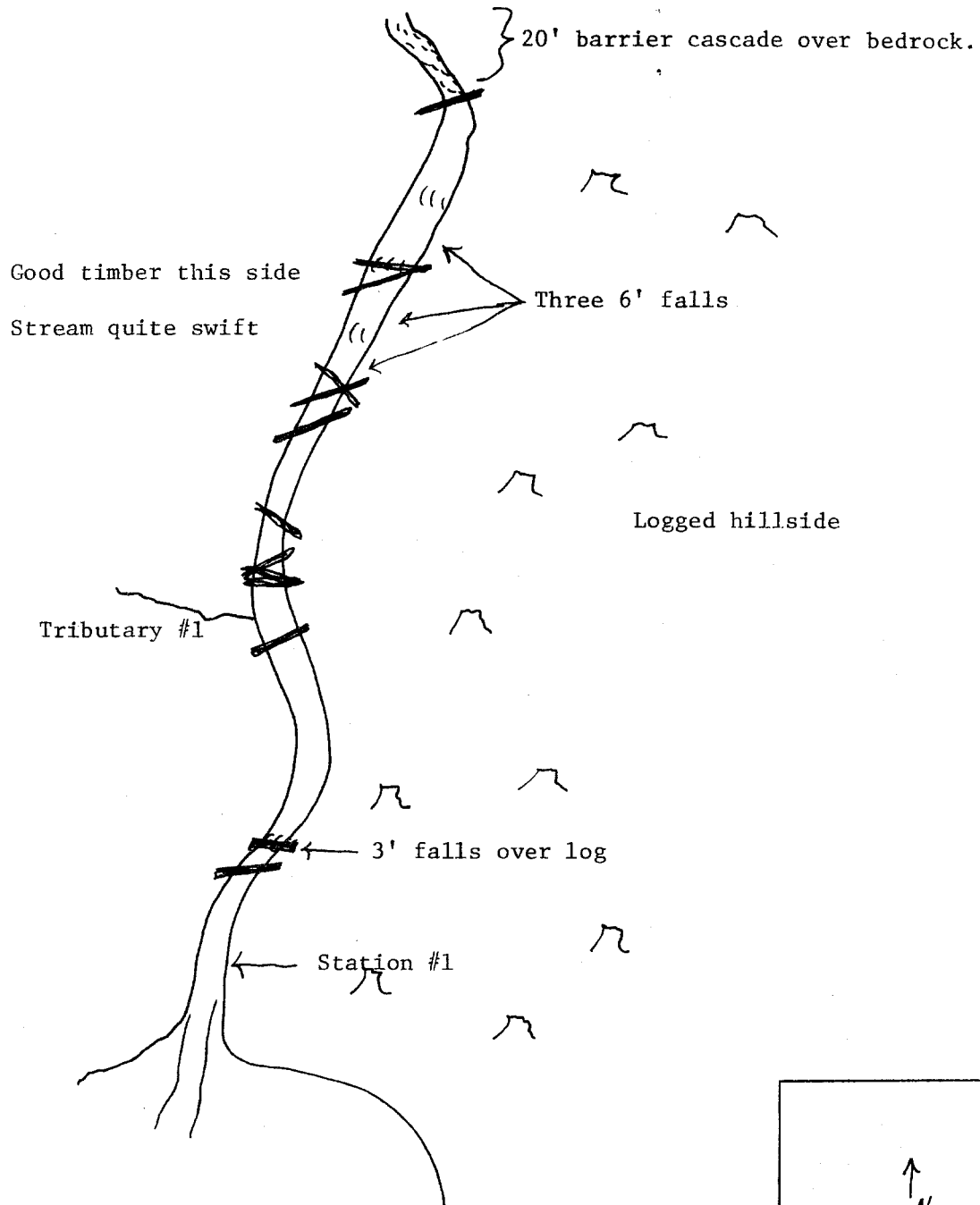
(1) Mosses
(2) Algae

1 2

General Remarks (rehab., land use, barriers, log jams, etc.): Northwest shore has been heavily logged.

101-51-87
8-2-73
Dinneford, Joyner

Survey distance = 1/4 mile



Name _____ Catalog No. 101-51-87
Latitude N 55° 28' 22" WR No. _____
Longitude W 130° 59' 36" K No. _____
Geodetic Map No. Ketchikan B-3 Work Area Ketchikan
Location Behm Canal S.W. Eddystone Rock Watershed Length 1-3/4 mile
Drainage Area of Watershed _____
Water Supply Type Lake

Trails & Survey Routes Easy walking along stream course at low flows.

Aerial Survey Notes No visibility.

Anchorage Fair anchorage for small skiff off mouth.

Tide Stage When Surveyed 2nd half flood

FISHERY RESOURCES

Commercial Fisheries None observed, no record.

Escapement No record. Spawning area: 662 m² (1320'x18'x30% ASA)

Species Composition None observed.

Timing Unknown

Schooling areas None, except off mouth in bay.

Shellfish Potential None

Sport Fisheries Dolly Varden, cutthroat.

Land Use at Present None

History of Land Use Clearcut logging on N.W. slope, over ten years ago.

Rehabilitation Potential Very low. Stream not showing much potential to warrant log removal.

Soils Banks steep, much sand in water. Fair amount of slippage observed; many trees across stream.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	<u>1 old</u>
	Number of droppings	<u>0</u>
Geese -----	Number seen on tide flats	<u>0</u>
	Number seen up creek	<u>0</u>
	Number of broods seen	<u>0</u>
Mallards ---	Number seen on tide flats	<u>0</u>
	Number seen up creek	<u>0</u>
	Number of broods seen	<u>0</u>
Mergansers -	Number of broods seen	<u>0</u>
Hald Eagles-	Number seen along creek	<u>0</u>
	Number of nests seen and location	<u>0</u>
Seals -----	Number seen at mouth of stream	<u>1</u>
Tide flats -	Estimate length along beach	<u>0</u>
	Estimate depth out from beach	<u>0</u>
	Eel grass present or what percent of flats	<u>0</u>

STREAM INVENTORY FORM

Name: _____

Number: 101-51-87

Observers: Dinneford, Joyner

Date: 8-2-73

Temperature: 58°

Weather: Partly cloudy, warm

- 94 -

Station No.	1																
Pool Size/Type	2/2																
Riffle Type Width-Depth	19'W 5"D																
Pool Riffle Frequency	3																
Bottom Type (Riffle)	4																
Color/Turbidity	1/1																
Velocity	2																
Flow (C.F.S.)	8.1																
Temp. (°F.)	51°																
pH	5																
Fry Abundance	2-1 4-1																
Benthos Sample No.	1																
Higher Plant Class	1																
Aquatic Veg. Density	1 2 3																
Ident. (1) Mosses (2) Algae	1 1 1																

General Remarks (rehab., land use, barriers, log jams, etc.):

(

(

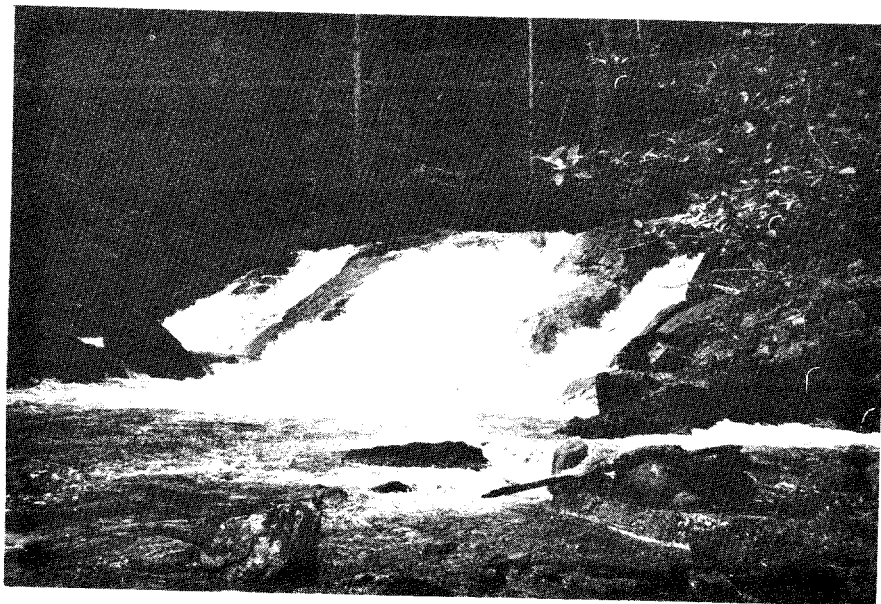


Ella Creek at
Station #1, below
lower falls.
8-5-73



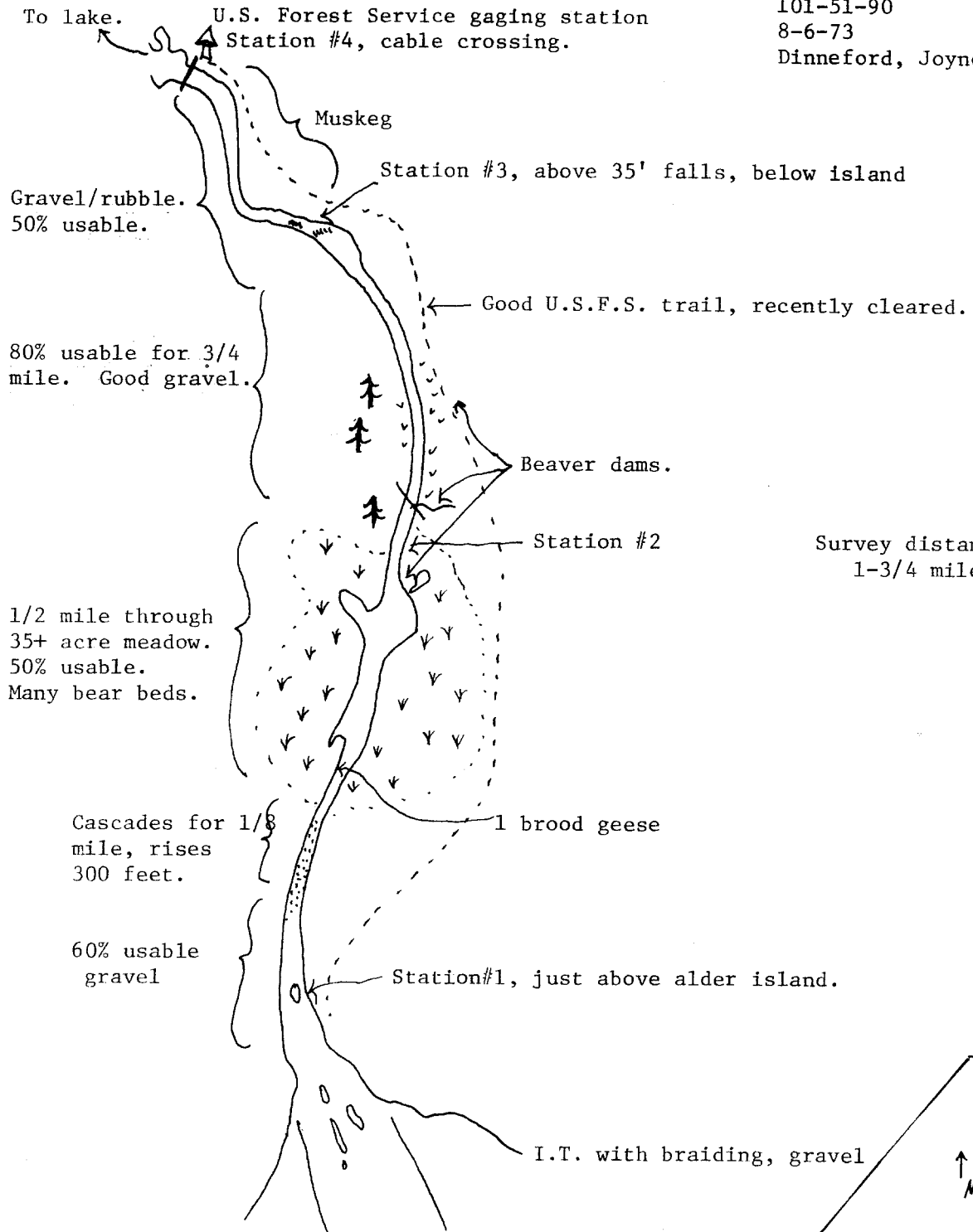


Ella Creek -
just above lower
falls.

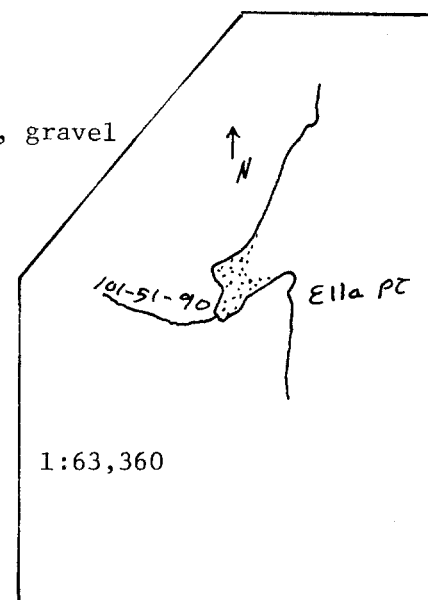


Falls on Ella
Creek - 1 mile +
upstream.

Ella Creek
101-51-90
8-6-73
Dinneford, Joyner



Survey distance =
1-3/4 miles



Name Ella Creek Catalog No. 101-51-90
 Latitude N 55° 29' 44" WR No. 72
 Longitude W 130° 59' 31" K No. 72
 Geodetic Map No. Ketchikan B-3, B-4 Work Area Ketchikan
 Location Behm Canal, W. of no. Eddystone Watershed Length 9 miles
 Drainage Area of Watershed _____
 Water Supply Type Large lake system, precipitation fed.

Trails & Survey Routes Good USFS trail on north bank but does not follow stream for entire length.

Aerial Survey Notes Apparently excellent visibility, water slightly discolored.

Anchorage Fair anchorage for small craft off creek mouth, most of cove fairly shallow.

Tide Stage When Surveyed 1st half of flood.

FISHERY RESOURCES

Commercial Fisheries Pink (observed), coho and chum

Escapement 1947 - 10 pink, 3 chum; 1949 - 5300 pink, 1550 chum

Spawning area: 1394 m² (500'x50'x60% ASA)

Species Composition 75% pink, 25% chum, some coho

Timing Early

Schooling areas Ella Bay, pools in upper intertidal and throughout stream.

Shellfish Potential Small amount of eel grass in the shallow bay.

Sport Fisheries Dolly Varden, coho and cutthroat. Pools offer apparent good fishing; especially just below lake.

Land Use at Present None

History of Land Use Forest Service trail, gaging facilities at lake outlet.

Rehabilitation Potential Stream clear of debris. Good pink habitat available above lower cascades.

Soils Stable throughout system.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	2
Geese -----	Number seen on tide flats	0
	Number seen up creek	4
	Number of broods seen	1
	On low end of meadow	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	2
Bald Eagles-	Number seen along creek	1
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	2
Tide flats -	Estimate length along beach	0
	Estimate depth out from beach	0
	Eel grass present on what percent of flats	0

STREAM INVENTORY FORM

Name: Ella Creek

Number: 101-51-90

Observers: Dinneford, Joyner

Date: 8-2-73 & 8-6-73.

Temperature: 60°

Weather: Sunny - warm

Station No.

Pool Size/Type

Riffle Type
Width-Depth

Pool Riffle
Frequency

Bottom Type
(Riffle)

Color/Turbidity

Velocity

Flow (C.F.S.)

Temp. (°F.)

pH

Fry Abundance

Benthos
Sample No.

Higher Plant
Class

Aquatic Veg.
Density
Ident.

(1) Mosses
(2) Algae

1	2	3	4												
0	1/1	2/2	2/2												
54'W 24"D	60'W 48"D	55'W 24"D	60'W 18"D												
3	1	2	3												
4/5	4/1	4/1	4/5												
1/1	1/1	1/1	1/1												
2	1	2	2												
121.2															
65°	64°	64°	64°												
5	5	5	5												
2-2 4-5	1-21 3-6 5-19	0	5-1												
1	1	1	1												
1	2	3	3	2											
2	2	1	1	1											

General Remarks (rehab., land use, barriers, log jams, etc.):

Give consideration to installing a ladder at upper falls - survey of lake system in order.

PEAK ESCAPEMENT RECORD

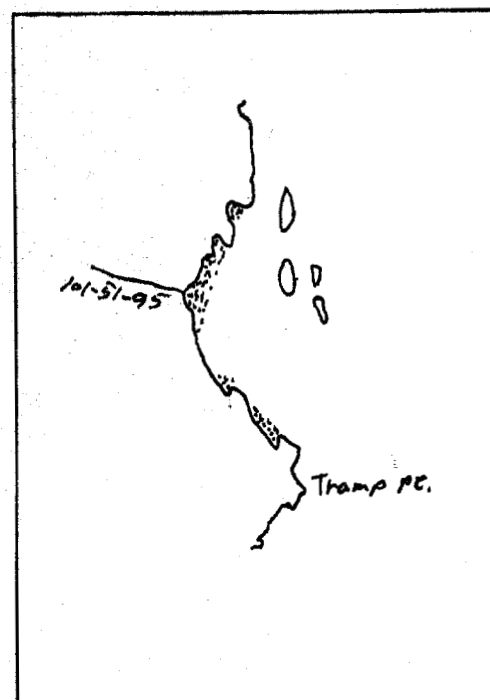
Ella Creek
101-51-90

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
9-15-43				Many thousand @ mouth.
10-1-47	10	3		
9-27-49	5,000	1,500		300 dead pink, 50 dead chum.
8-30-62				None observed, visiblity good.
8-8-63				None observed, I.T.
8-22-75				None observed.

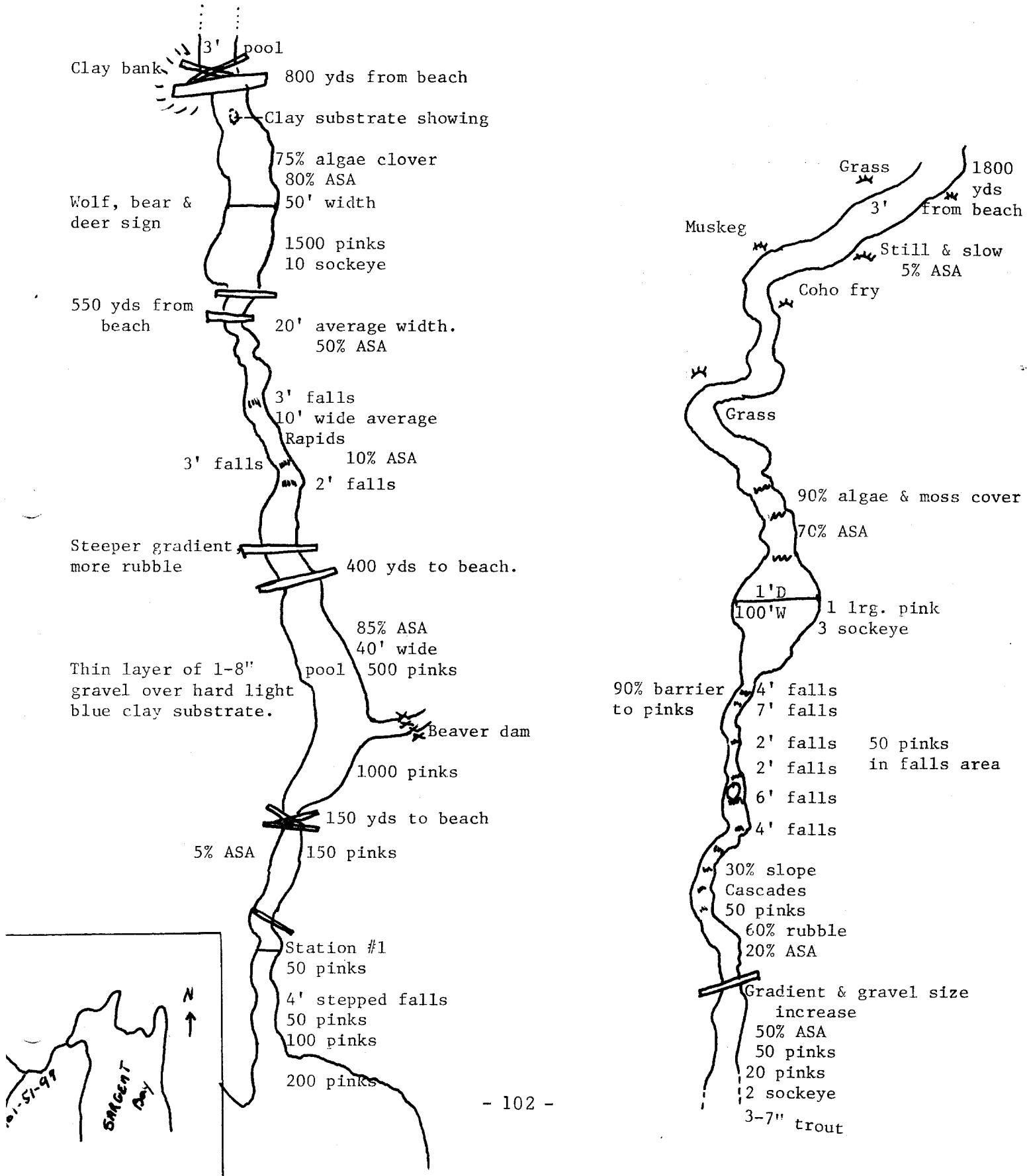
- 100 -

Sergeant Bay
101-51-95
8-19-75
Downey

Small stream approximately 10' wide in the intertidal zone. A little spawning gravel here (4") but not much. Narrows and becomes bedrock at treeline and goes up rather rapidly.
Not much of a stream - no fry observed.



Left Head Sargent Bay
101-51-97
8-19-75
R. Larson



Name Left Hd. Sargent Bay Catalog No. 101-51-9/
Latitude N 55° 34' 32" WR No. 73
Longitude W 130° 58' 44" K No. 73
Geodetic Map No. Ketchikan C-3 Work Area Ketchikan
Location E. Behm Canal, Sargent Bay Watershed Length 5 miles
Drainage Area of Watershed 6.3 sq. miles
Water Supply Type Precipitation fed, lakes and runoff

Trails & Survey Routes The stream is relatively easy to walk at normal water levels

Aerial Survey Notes Although the water is quite shallow and it was not surveyed by air from ground observations it looks as though it should be difficult due to dark
Anchorage Off the mouth in Sargent Bay. botto

Tide Stage When Surveyed 1/2 ebb.

FISHERY RESOURCES

Commercial Fisheries Pink and sockeye adults, coho fry observed = could possibly be some chum.

Escapement 3700 pink, 15 sockeye, 1975; No previous records of escapement. Spawning area: 4369 m² (900' L x 15' W x 15% ASA) & (1500' L x 40' W x 75% ASA)

Species Composition Percentages unknown - pinks, sockeyes and coho known to spawn here.

Timing Middle - August, September

Schooling areas In mouth of creek

Shellfish Potential Unknown

Sport Fisheries Unknown

Land Use at Present None

History of Land Use Unknown

Rehabilitation Potential The falls 2/3 mile above tideline should be examined to facilitate fish passage.

Soils Much of streambed and banks have a blue clay substrate which is easily disturbed. Bedrock is evident in falls and rapids areas.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
	1 set bear tracks	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Much goose sign in muskeg flats	0
	Number of broods seen	0
	1 mile from beach	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	1
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	0
	Estimate depth out from beach	0
	Eel grass present on what percent of flats	0
	1 set wolf tracks	0

STREAM INVENTORY FORM

Name: Sargent Bay Creek
 Number: 101-51-97

Observers: R. Larson - Downey
 Date: 8-19-75
 Temperature: 58°
 Weather: Overcast - drizzle

Station No.	1														
Pool Size/Type	3/1														
Riffle Type Width-Depth	18'W 1.5'D														
Pool Riffle Frequency	3														
Bottom Type (Riffle)	4														
Color/Turbidity	1/1														
Velocity	2														
Flow (C.F.S.)	39.3														
Temp. (°F.)	57°														
pH	4.5														
Fry Abundance	0*														
Benthos Sample No.															
Higher Plant Class	22														
Aquatic Veg. Density	2**														
Ident. (1) Mosses (2) Algae	2														

General Remarks (rehab., land use, barriers, log jams, etc.): * = Several coho fry seen in all pools above station.
 ** = Vegetation becomes dense in several areas upstream from station.

PEAK ESCAPEMENT RECORD

Sargent Bay
101-51-97

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
8-19-75	2,800		10 red	200 @ mouth, 500 @ I.T.

- 105 -

1500 pink salmon
from last downstream
point. Spawning
and well distributed.

---45' wide, 8" deep.

Moderate water
velocity.

Excellent spawning
gravel 2-4" dia.

100 pink salmon
to barrier.

--Station #3
---10-12' high falls
barrier.

---large rock and
boulders
---Dolly Varden
observed.

Cabin Creek
(Bartholomew)
101-55-09
9-19-74
Novak, Larson, Downey

75% ASA

S P R U C E

H E M L O C K

C E D A R

---pool. 500 pink salmon.

---2000 pink salmon actively spawning.
Well distributed from last downstream
notation.

---Station #2

H E M L O C K

S P R U C E

C E D A R

---1 coho fry observed.

---3500 pink salmon above ITZ to this point.

WATER TEMPERATURE 57°F

Abundance of pink salmon eggs along banks and pools.
All dead. Pool substrates white with eggs.

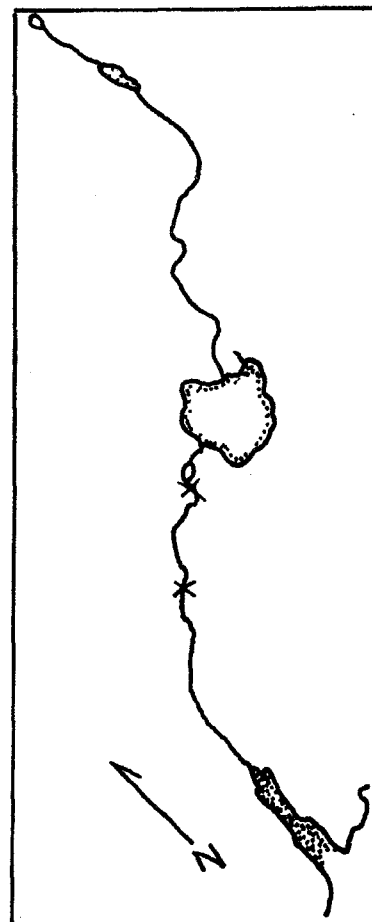
---45' wide, 8" deep

(Counted 4100 live pink salmon actively spawning.
Equal number or more dead pink salmon estimated.
All in ITZ.)

---Station #1

---ITZ & tree line

10 adult coho and 8 sockeye
observed during survey.
Chum salmon 5% of total spawning
salmon observed.



Name Cabin Creek (Bartholomew) Catalog No. 101-55-09
Latitude N 55° 18' 40" WR No. _____
Longitude W 130° 47' K No. _____
Geodetic Map No. Ketchikan B-3 Work Area Ketchikan
Location Smeaton Bay - Behm Canal Watershed Length 1.4 miles access: 5.5 mi.T
Drainage Area of Watershed 9.9 sq. miles (polar planimeter)
Water Supply Type Lake supply supplemented by precipitation.

Trails & Survey Routes At normal water flows, the easiest route is by walking in the stream. Cut trails are completely revegetated.
Aerial Survey Notes Best approach from lake to intertidal. Upper end is closed canopy; lower area open effect with good survey criteria.
Anchorage Excellent anchorage for large vessel inside cove. Rock bottom, 15 fathoms, available. Limited swing area for large vessel.
Tide Stage When Surveyed 2nd half of flood - 1st half of ebb.

FISHERY RESOURCES

Commercial Fisheries Pink, chum, coho, red salmonids.

Escapement Peak esc. - 1974 - 11,300 pink, 650 chum, 8 sockeye, 10 coho. High historic 75,000 (1942). Spawn area: 15451m²(70% ASA, 45'W, 5280'L.)
Species Composition Pink salmon from 1974 survey - 94%, chum 5%, coho & red 1%.

Timing Late - September and October.

Schooling areas Major intertidal schooling occurs in outer cove, at upper ITZ near grassed over island. Schooling area for Smeaton Bay.

Shellfish Potential Dungeness and small king crab were collected in the cove using subsistence pots.

Sport Fisheries Cutthroat are found in the lake above barrier. Four species salmon, sea run cutthroat and Dolly Varden - lower end.

Land Use at Present None

History of Land Use Unknown - other than 1930-40's seasonal residency by stream protection personnel.

Rehabilitation Potential Possible steep pass installation at falls barrier with subsequent coho or red salmon stockings.

Soils Stable, but susceptible to high bank erosion if logged. High water flow deposits of silt found along bars in lower end.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or <u>fresh</u>) on banks, estimate	20
	Number of droppings	3
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	25
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	40
Bald Eagles-	Number seen along creek	4
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	1/4 mile
	Estimate depth out from beach	50 feet
	Red grass present on what percent of flats	1-2%

STREAM INVENTORY FORM

Name: Cabin Creek

Number: 101-55-09

Observers: Novak, Larson, Downey

Date: 9-19-74

Temperature: 54°

Weather: Overcast - Light rain.

- 108 -

Station No.	1	2	3												
Pool Size/Type	3/1	3/1	3/1												
Riffle Type Width-Depth	45'W 10"D	45'W 8"D	45'W 8"D												
Pool Riffle Frequency	3	3	3												
Bottom Type (Riffle)	4/3	4	4/5												
Color/Turbidity	1/1	1/1	1/1												
Velocity	2	2	2												
Flow (C.F.S.)															
Temp. (°F.)	57°	57°	57°												
pH	5	5	5												
Fry Abundance	-	1-1	2-1												
Benthos Sample No.															
Higher Plant Class	1	1	2												
Aquatic Veg. Density	2	2	2												
Ident. (1) Mosses (2) Algae	2/1	2	2												

General Remarks (rehab., land use, barriers, log jams, etc.):

The 12' barrier may be possible to steep pass with the idea of developing red salmon runs into the lake system above the falls. Some log jam removal may be necessary in the future in the area of the upper island.

PEAK ESCAPEMENT RECORD

Cabin Creek
101-55-09

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
9-14-38	4,000	1,000		6000 off mouth.
9-13-39	3,000			Good showing in bay.
9-29-40	12,000			Good. 2000 chum 9-13.
9-27-41	75,000			Excellent.
9-21-42	50,000	500		Excellent. 10,000 chum 9-12. Stream over seeded.
9-18-43	25,000	4,000		Good. 10,000 off mouth.
9-17-45	30,000	10,000		Excellent. 30,000 off mouth.
9-28-47	10,000	500	5 red	1500 chum 9-19. Excellent.
9-22-48	15,800	1,325		
9-27-49	11,300	362	26 red	1354 dead pink, 157 dead chum.
9-20-50	3,055	670		
9-13-51	11,500	490	33 red. coho present.	Few dead chum.
9-15-52	1,800	175	2 coho, 7 red	250 dead pink, 90 dead chum;
7-18-53	2,000			
9-19-54	14,000	1,000	4 red.	1-2000 at mouth.
9-25-55	25,000			Some chum. Many dead pink.
9-24-56	15,000			Few dead pink.
9-7-57	7,200	1,400		300 dead pink.
8-9-60				Vis. poor. 200 pinks at mouth.
9-8-61				Many fish present, vis. poor.
9-4-63	19,000	few	few coho	Vis. fair to poor; stream low, raising.
9-1-64	12,000	few		Vis. good to excellent. 150 I.T.
8-18-65				800 - 1000 @ mouth. Vis. good. 5 balls above Cabin Creek. 4-5000 total.
- 109 -				

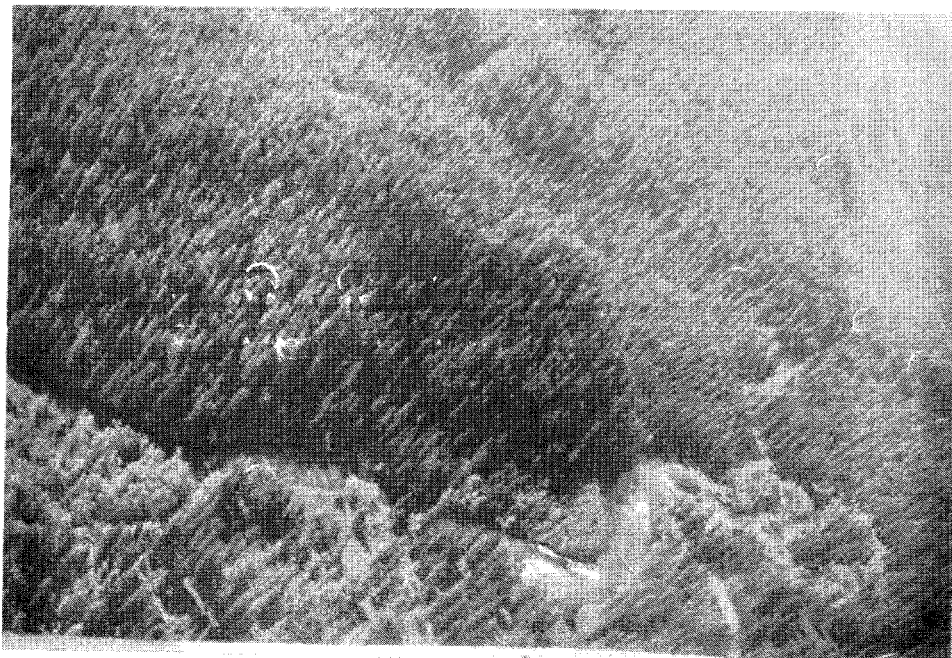
PEAK ESCAPEMENT RECORD

Cabin Creek
101-55-09

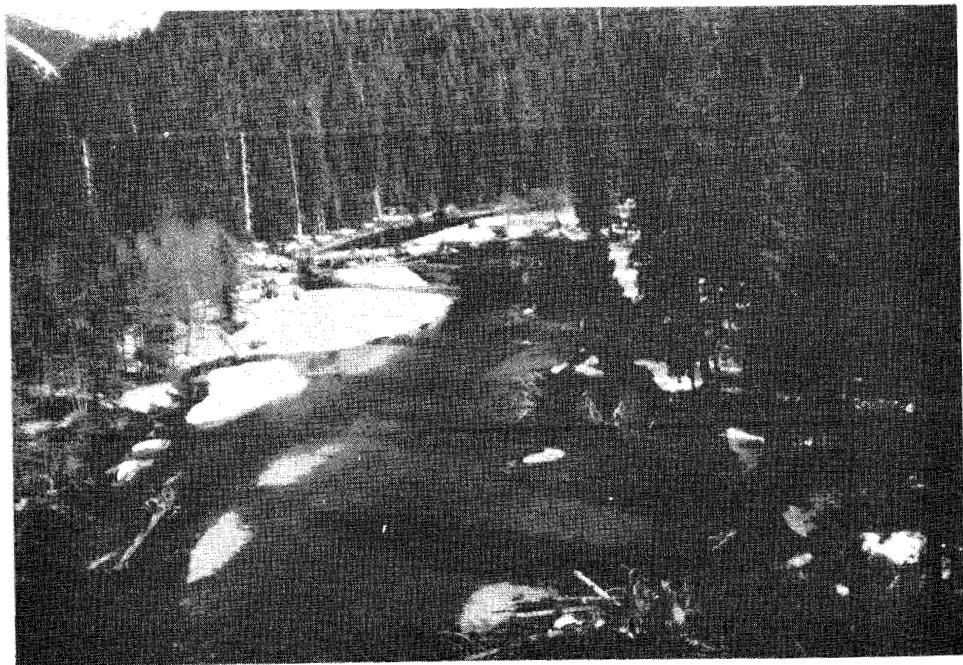
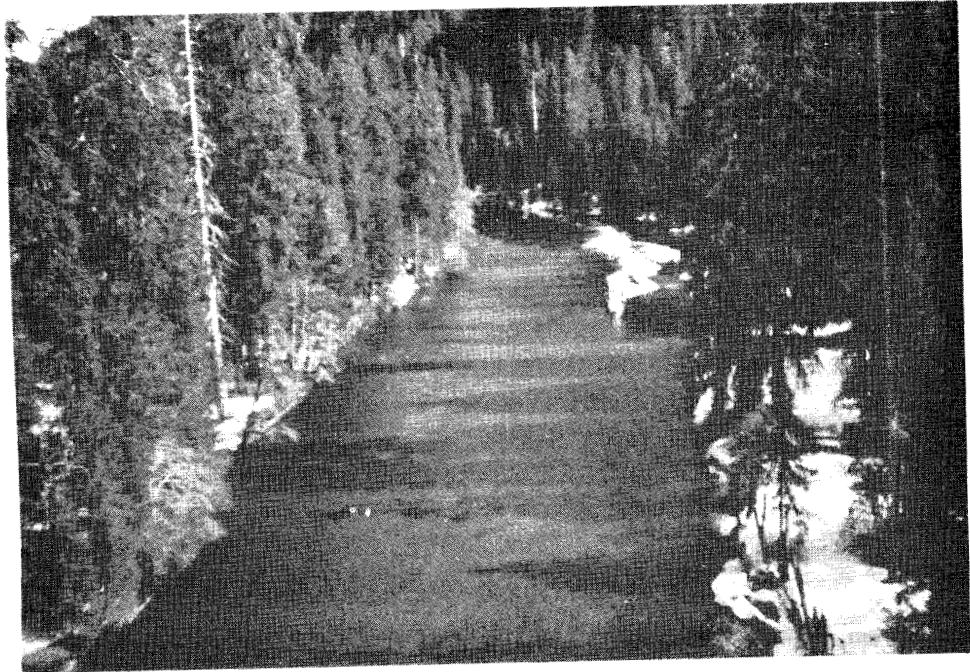
DATE	PINK	CHUM	OTHER SPECIES	REMARKS
9-7-66	8,500			1500 @ mouth. Fish spread out, spawning. Good visibility.
9-11-67	1,900			700 I.T. Vis. fair to poor.
8-27-68	8,500			300 @ mouth. Good vis., fish largely schooled. Few carcasses.
8-20-69	10,000			Vis. good to poor. 100 @ mouth.
8-25-70				2000 @ I.T., 500 @ mouth. Vis. poor in stream.
8-28-71	22,000			Vis. fair. 3 balls @ mouth, 5000 I.T.
8-2-72	2,000			Vis. good.
8-21-73	6,000			6000 @ mouth & I.T., Vis. good.
9-6-74	6,500			2500 pink @ mouth. Some carcasses. Vis. good.
8-20-75				20,000+ in stream & off mouth. Needs helicopter or foot survey.
- 110 -				



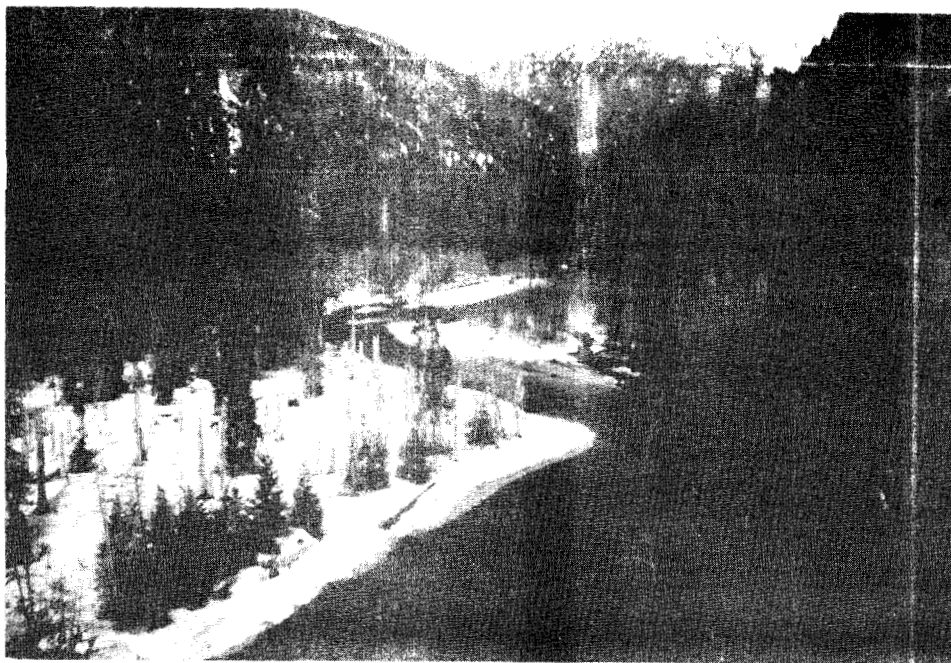
101-55-20 & 40
Wilson/Blossom Rivers confluence.
Blossom enters from left, center.



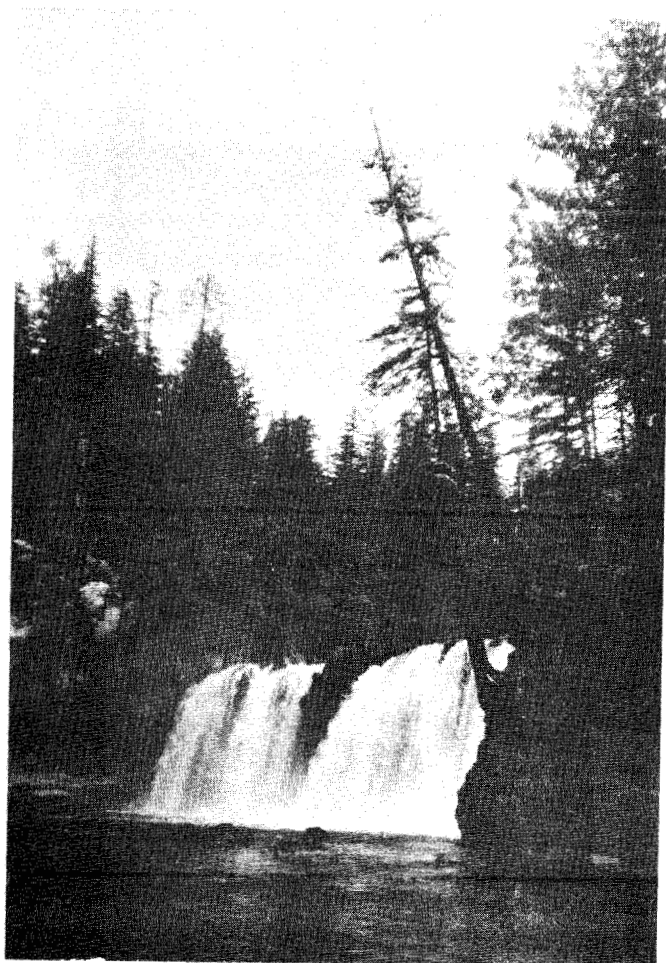
101-55-40, midsection Blossom River, 6-5-76.



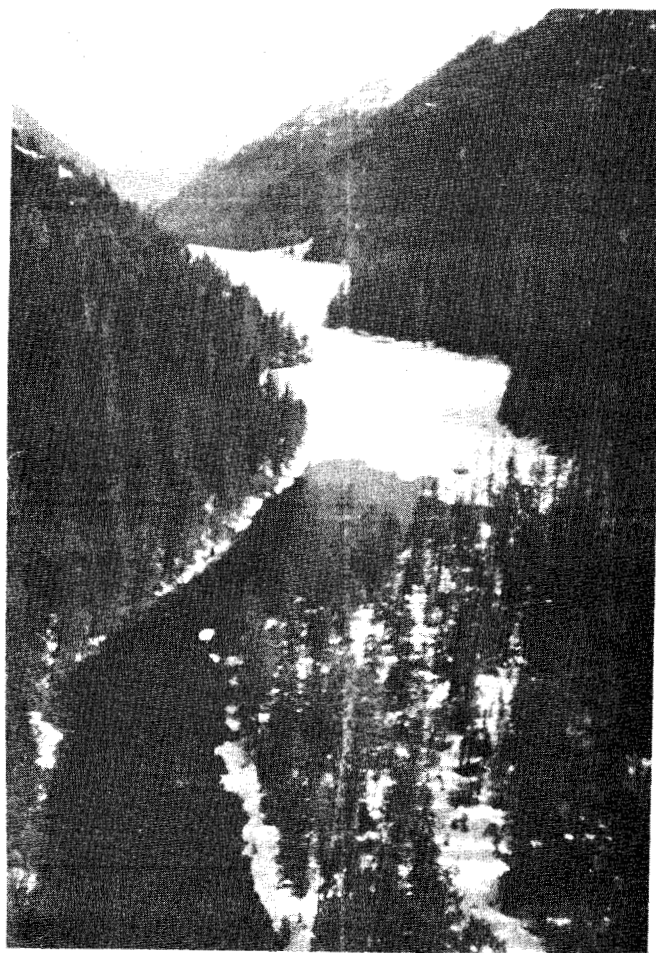
Wilson River
above ITZ



WILSON RIVER



WILSON RIVER
40-50' falls below
lake.



Lower Wilson Lake
F.S. cabin on right
shoreline.



WILSON LAKE



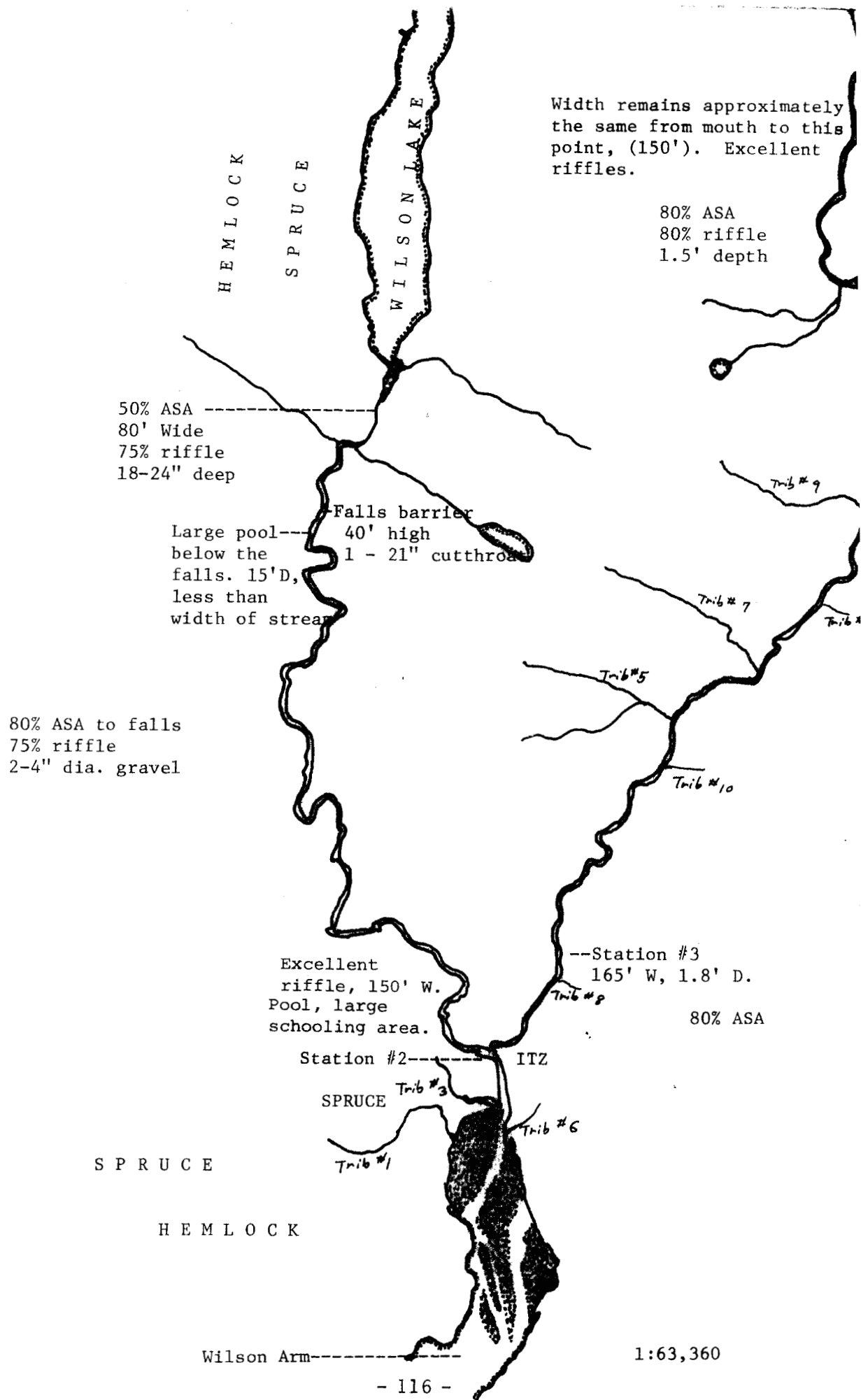
Head creek on
WILSON LAKE



WILSON RIVER
Above lake



WILSON RIVER
Above lake



Wilson River
101-55-20
4-25-75
Novak, Ahrendt

40% A.S.A.

Moderate velocity-----
rubble
10-20' wide.

X
Falls - rapids. End of
survey. Upper area snowfield
with boulders.

Braided area. Open timber
muskeg type along creek.

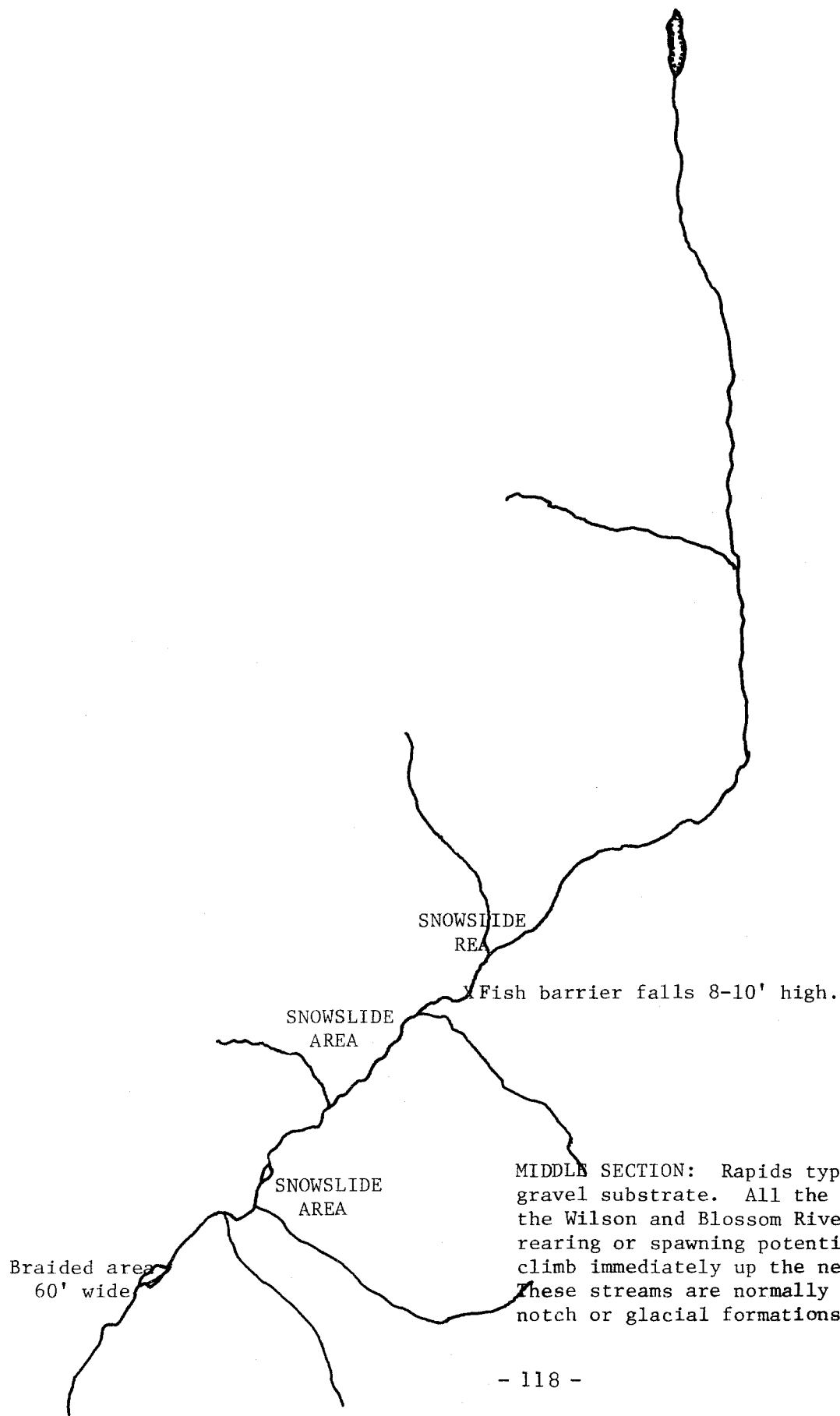
Excellent riffle areas
70% ASA.
Moderate velocity.

Braided area
60' width
10" depth

Station #1-----
Observed cutthroat
fingerling.
153' wide,
.9' deep

Muddy debris substrate
Slow moving waters.

WILSON LAKE



MIDDLE SECTION: Rapids type mixed with rubble, gravel substrate. All the tributaries on both the Wilson and Blossom Rivers have little or no rearing or spawning potential, as these streams climb immediately up the neighboring mountains. These streams are normally associated with V-notch or glacial formations.

Trap #4
45 min.
1 coho

Old beaver dam.

40% sand
60% 3" gravel

Tide to here

80% sand

Trib.

12' wide

Small island

Mostly 2-4" gravel

Trap #3
60 min.
0 catch

12 unidentified fry

Grass flats

2-4" gravel

Trap #2
60 min.
0 catch

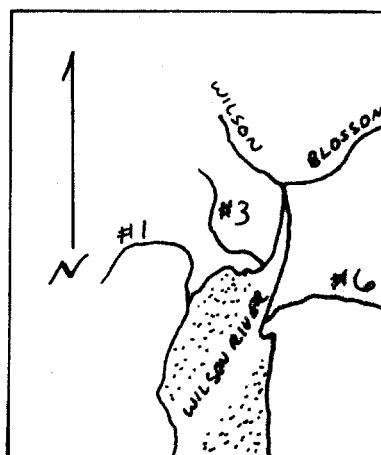
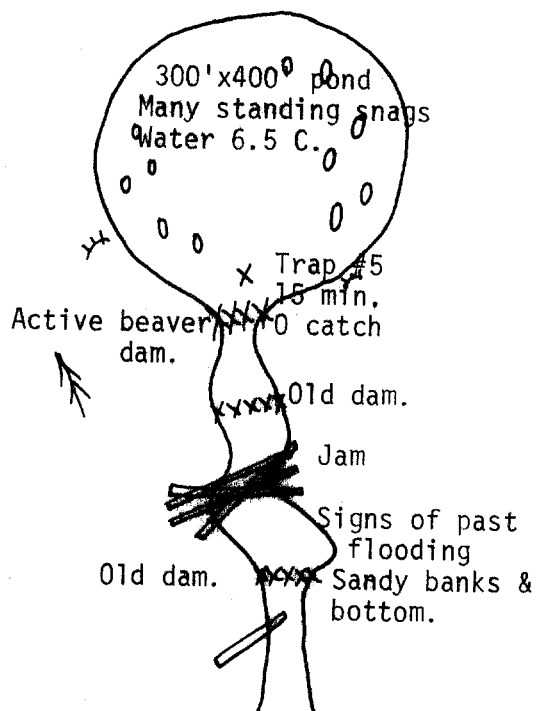
1-2" gravel
7.5 C.

Trap #1
100 min.
0 catch

Sand and mud

Wilson River

Wilson River - Tributary #1
6-22-76
Westlund, Dinneford



STREAM #3

June 23, 1976

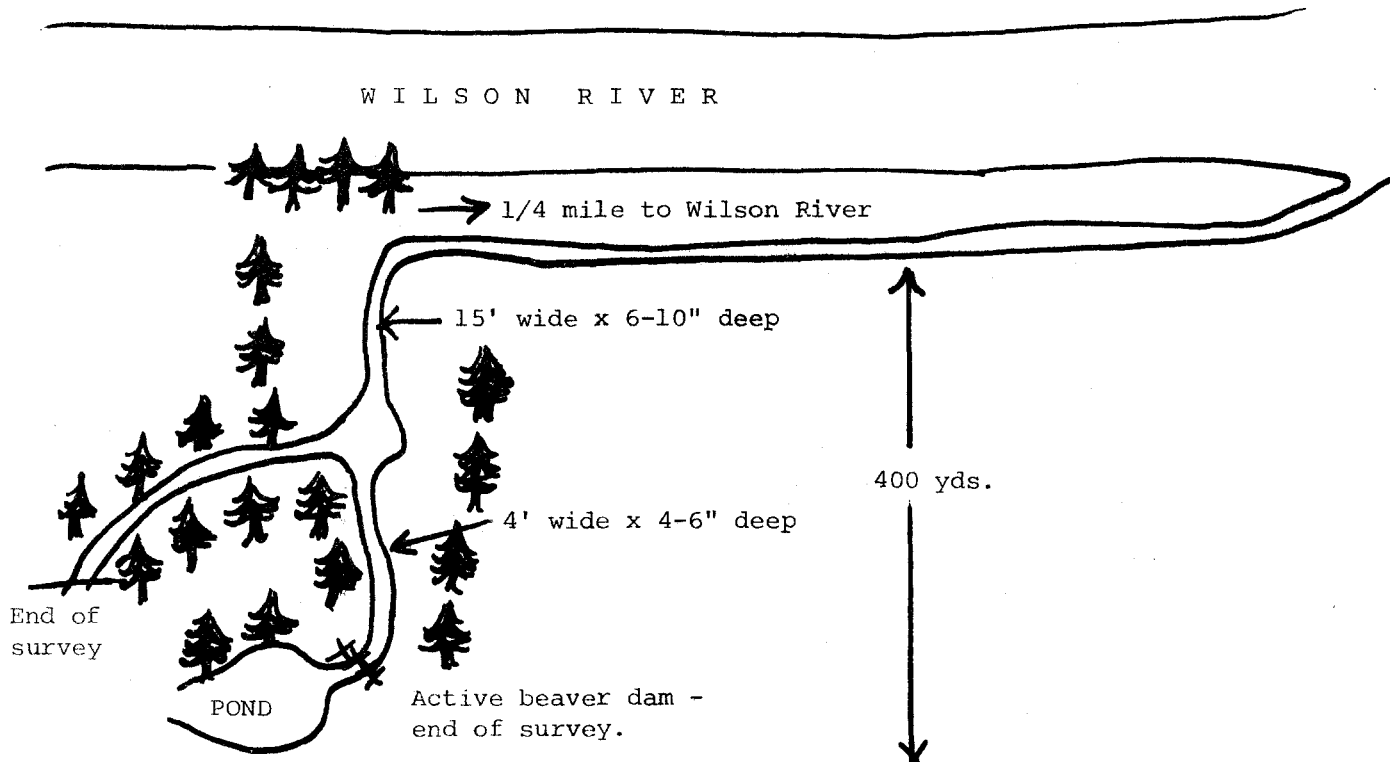
Surveyors: P.Larson, G.Downey, B.Woods

This stream is located on the western side of the Wilson River about 1/2 mile below it's confluence with the Blossom River.

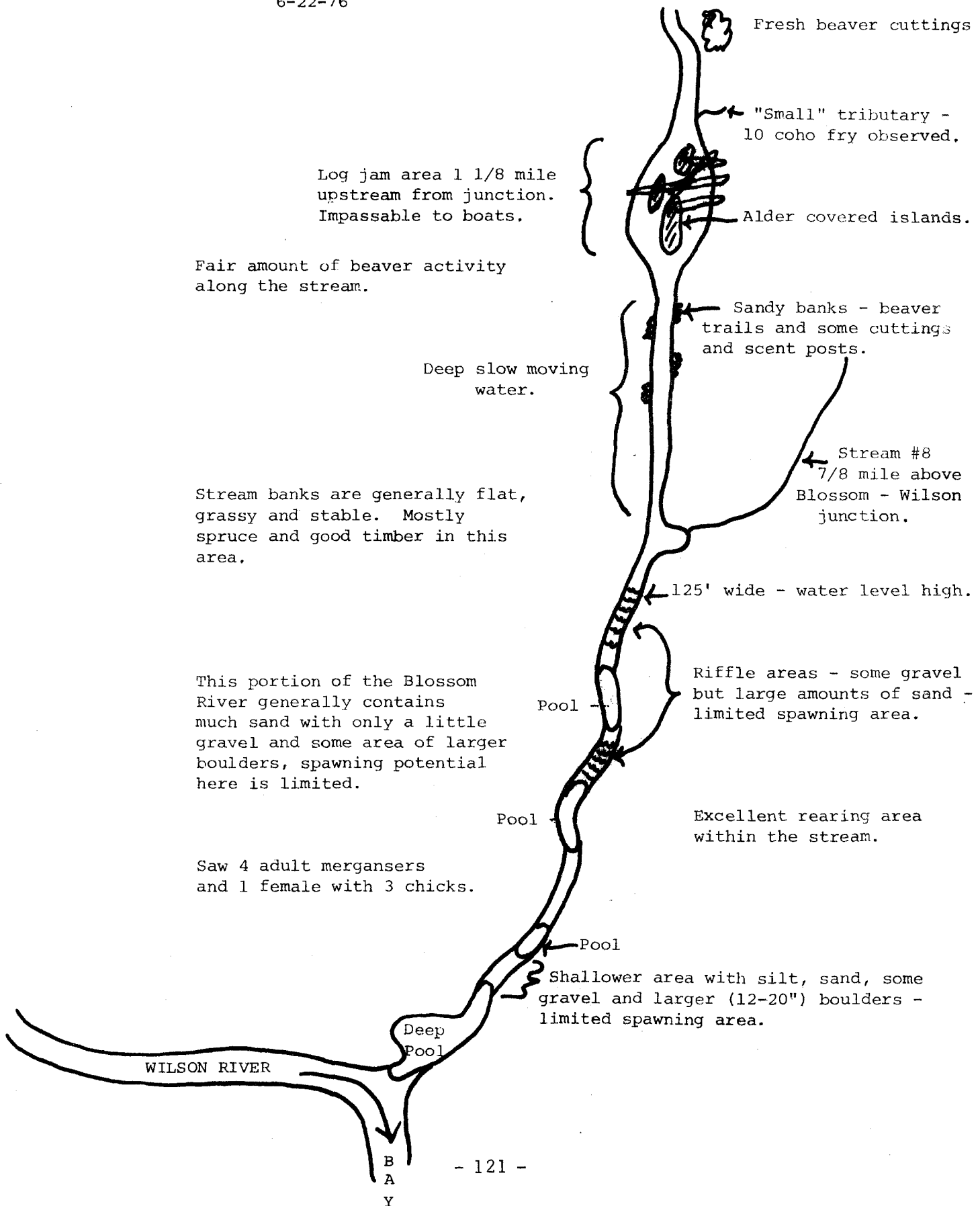
The stream is slow moving; however, it is believed that flow is maintained throughout the summer season. The bottom consists of a mixture of sand and softer silty material. Some gravel is present, but it is not well suited for salmon spawning. Extensive grass flats and a variety of flowering plant species are present on both sides of the stream.

Numerous fry were observed throughout the length of the survey. A considerable amount of overhanging grass banks are present. This appears to be a good rearing stream. Collected about 10 fry, at different locations along the stream, and all were coho. Fry trapping was unsuccessful; however, no great effort was put into it because of numerous fry observed and ample samples were collected by other means.

An active beaver dam was located on the left fork of this small stream. The dam is about 20' across. No beavers were seen; but, fresh cuttings were noted in the dam structure. The stream survey ended here. The survey was stopped on the right fork after some 200 yds as the flow diminished. The section of the stream that parallels the Wilson River consists of a series of deeper holes and slow moving water. This stream might better be termed a slough.



Blossom River
 Log jam to Wilson River
 P.Larson, B.Wood, G.Downey
 6-22-76



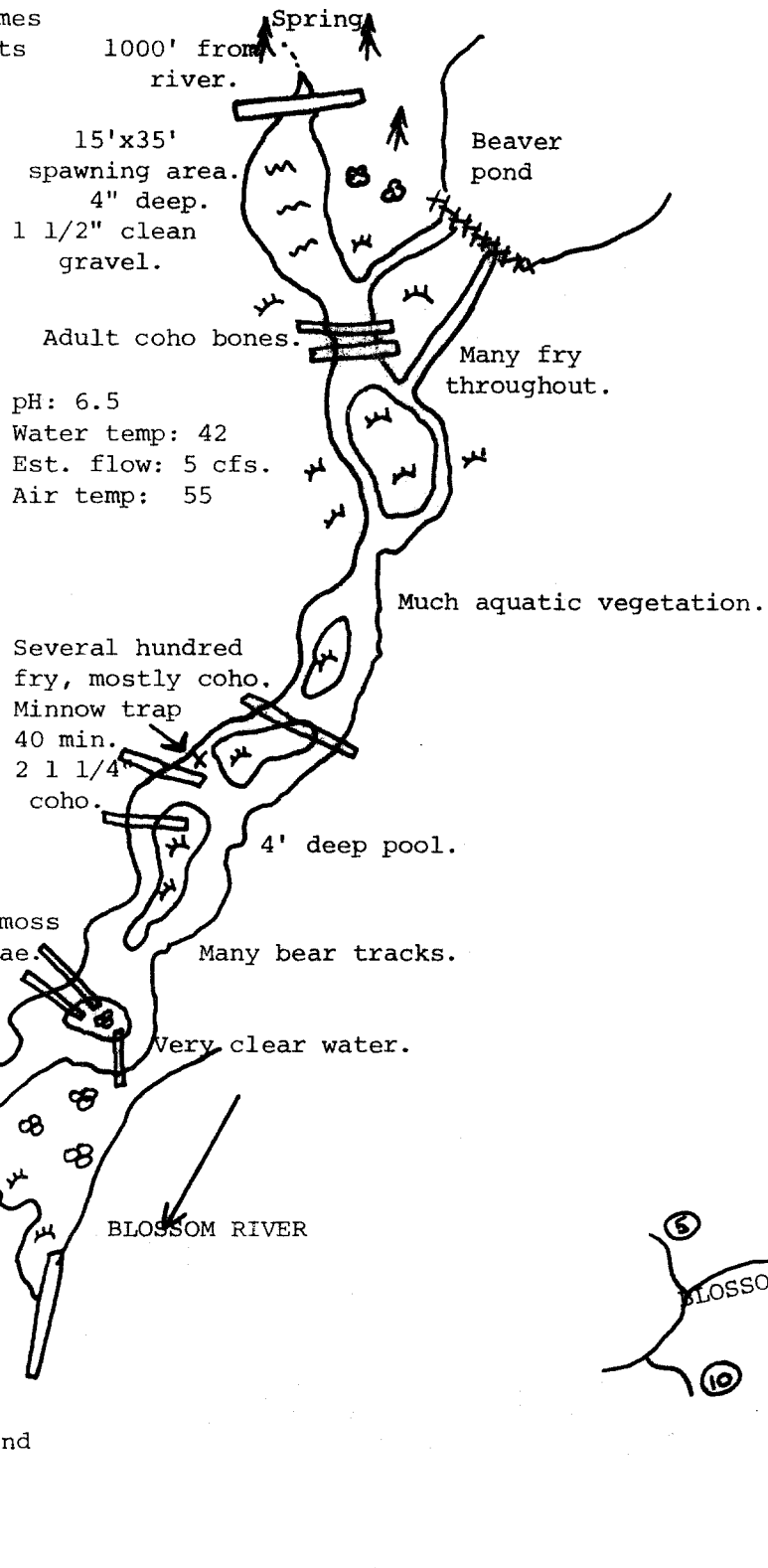
One of the most productive small streams examined in this system. Spawning area at head should be given complete protection.

Blossom River
Tributary #5
6-23-76
R.Larson, Jackinsky

Gradient increases.

Partial list of common names of easily recognized plants to show lushness of vegetation only:

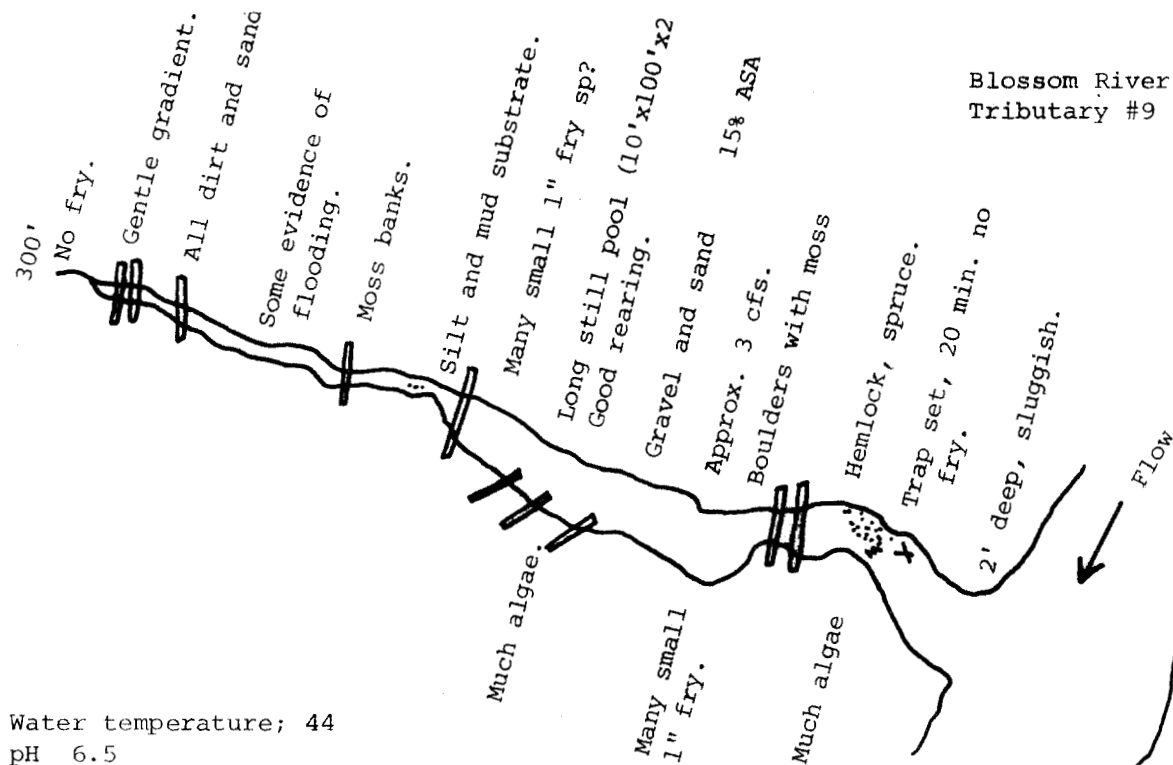
Huckleberry
Willow
Equisetum
Violets
Salmon berry
Fiddlenck fern
Wood fern
Yarrow
Kantchacka lilly
Sea angelica
Red alder
Several grasses
Several sedges
Watermellon berry
Pushky
Water hemlock
Marsh marigold
Highbush cranberry
Current
Elderberry
False lilly of the valley
False hellebare



1st 50 feet:

2 king fry
6 Dolly Varden
20 coho
50 unidentified.

Gravel and sand bottom.



Water temperature; 44
pH 6.5

Lower section
of Trib. #9

Much beaver
and bear
sign.

4'W,
6"D.

10 coho fry

Approx. 3 cfs

Minnow trap
45 min. soak
no fry.

1 merganser (male)

Scattered large spruce
Disappears into current,
elderberry, devils club
flats.

Greatest concentration
of fry.
Numerous 1" fry sp?

90'
Clear water
some sand.

8'W, 1' D.
Mud, detritus bottom

Tributary #9
BLOSSOM RIVER

6'D.pool
Rock
cliff

80'W.

Riffle

1-6" gra
1' Deep

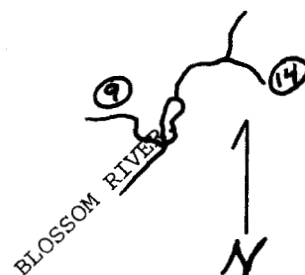
Excellent
riffle.

Good riff
2-6"
grave

Observers: R.Larson, T. Jackinsky.

RECOMMENDATIONS:

These small streams provide little or no spawning but have many rearing fry for their size. Streams are not utilized after the gradient begins to increase. All activity should be restricted to the top of the slopes and provisions made to minimize siltation.
6-23-76



Blossom River

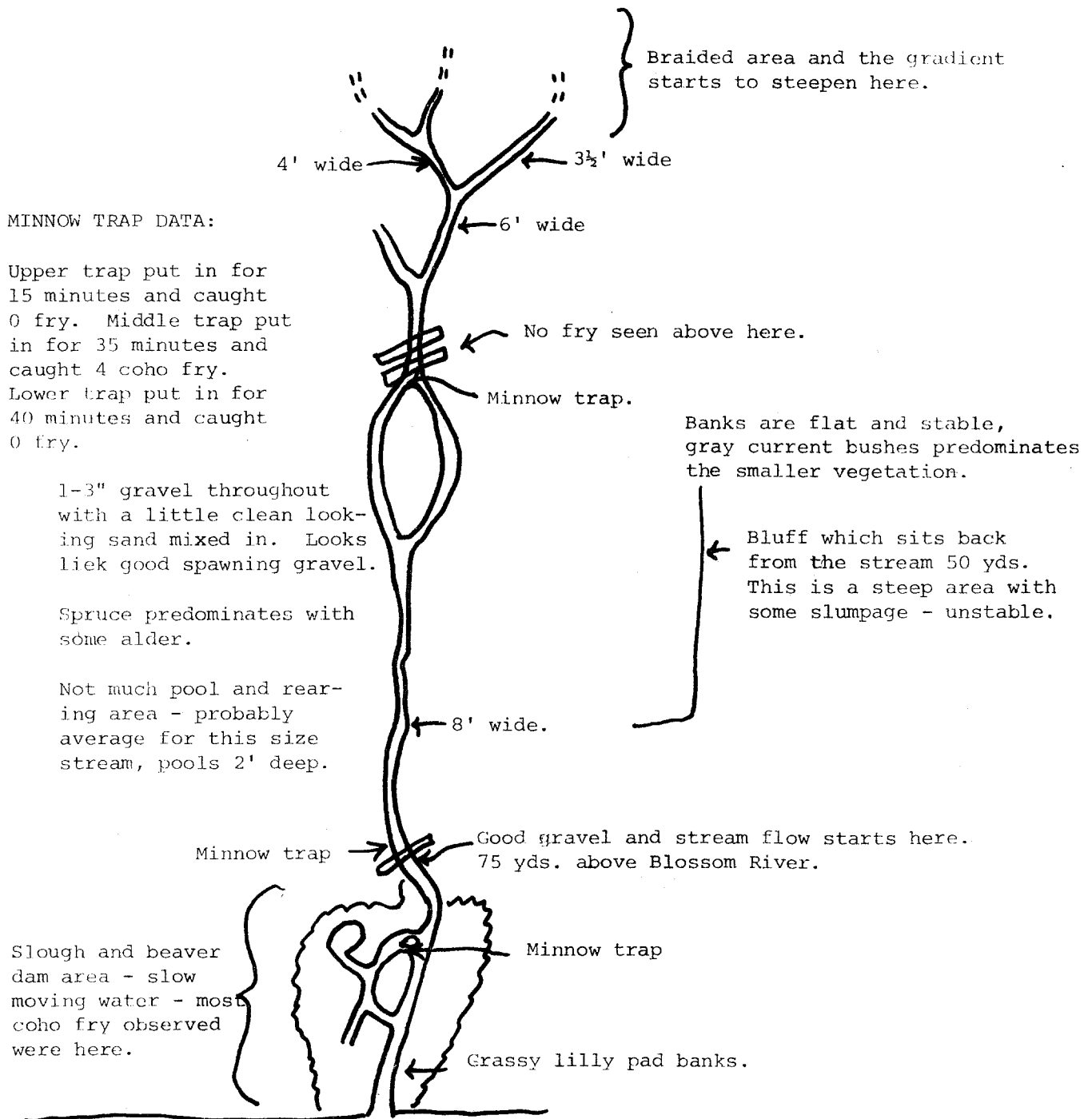
Smeaton Bay

Stream #8

6-22-76

Larson, Wood, Downey

|| } Stream comes back to one channel here but has steepened considerably and is the end of any fish utilization.



MINNOW TRAP DATA:

Upper trap put in for 15 minutes and caught 0 fry. Middle trap put in for 35 minutes and caught 4 coho fry. Lower trap put in for 40 minutes and caught 0 fry.

1-3" gravel throughout with a little clean looking sand mixed in. Looks liek good spawning gravel.

Spruce predominates with some alder.

Not much pool and rearing area - probably average for this size stream, pools 2' deep.

Banks are flat and stable, gray current bushes predominates the smaller vegetation.

Bluff which sits back from the stream 50 yds. This is a steep area with some slumpage - unstable.

Good gravel and stream flow starts here. 75 yds. above Blossom River.

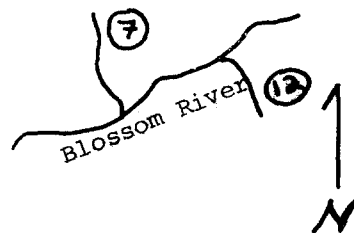
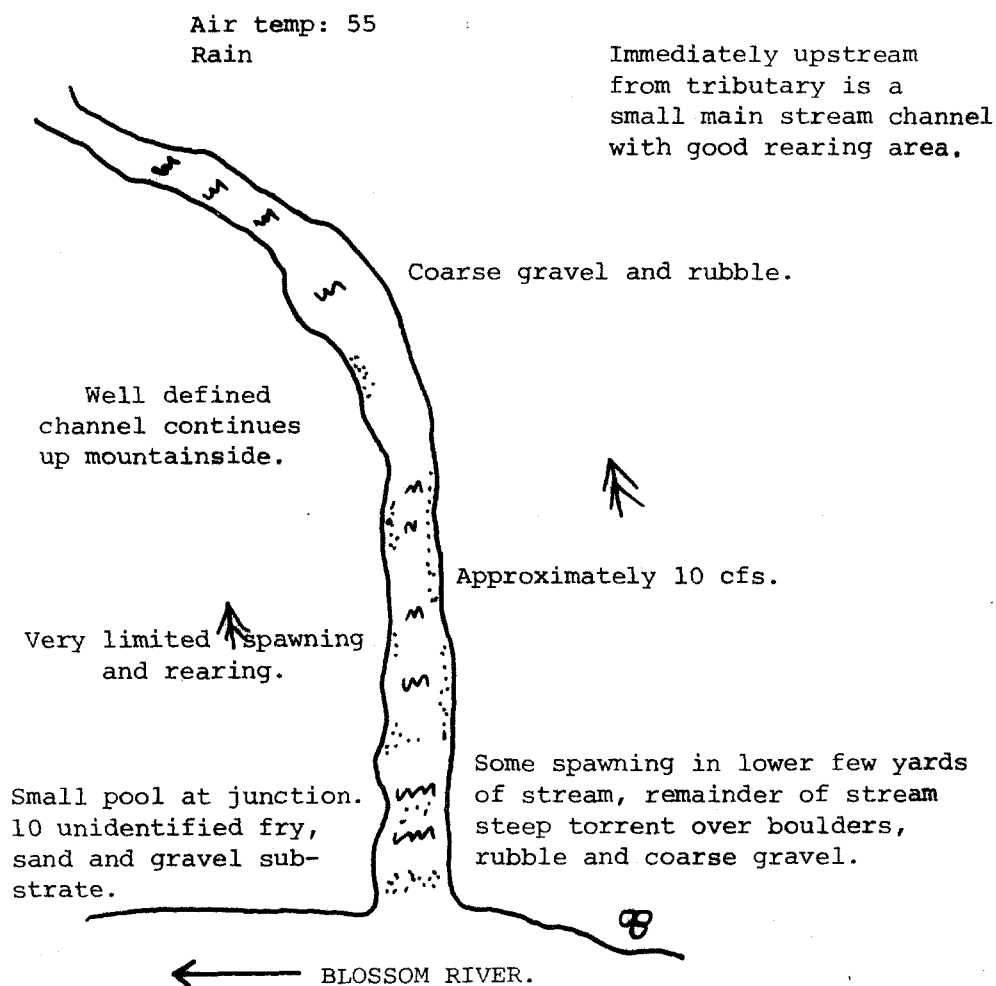
Slough and beaver dam area - slow moving water - most coho fry observed were here.

Minnow trap

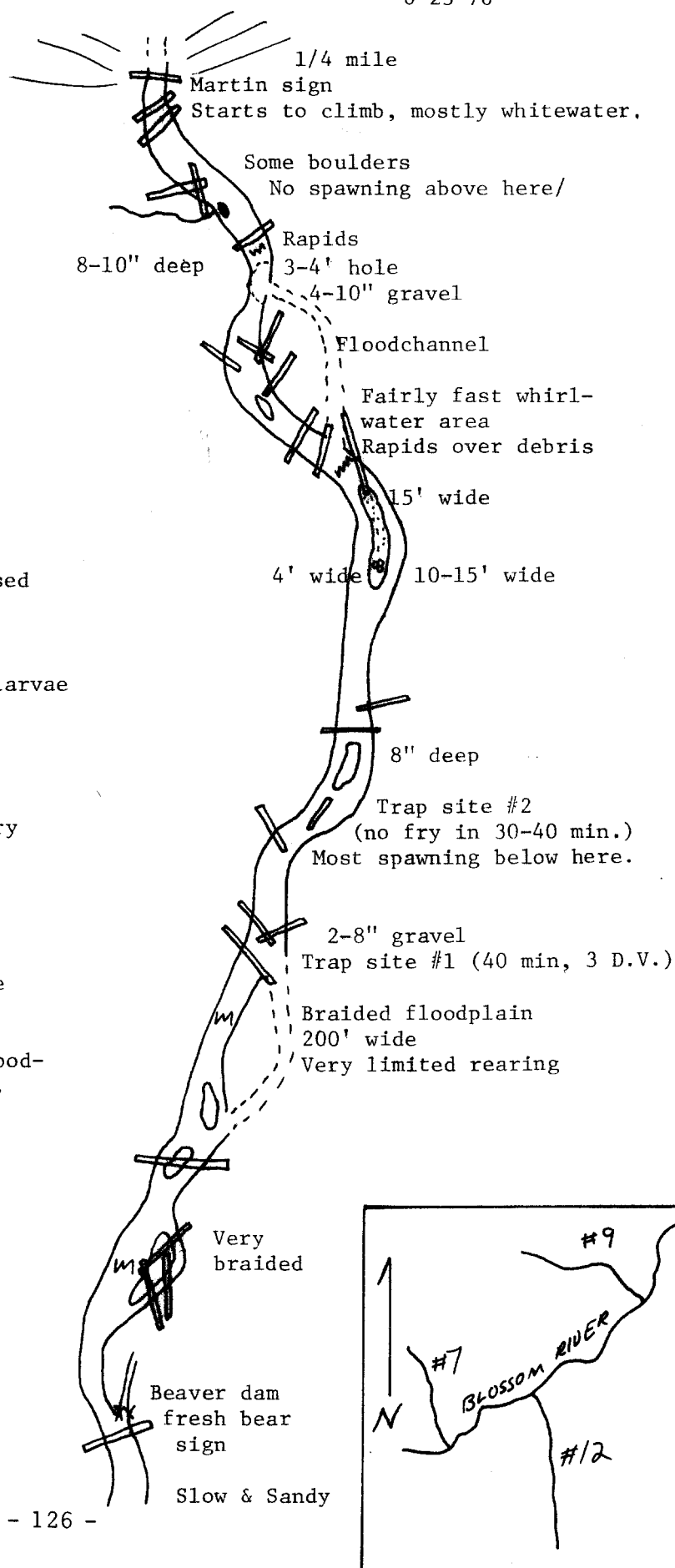
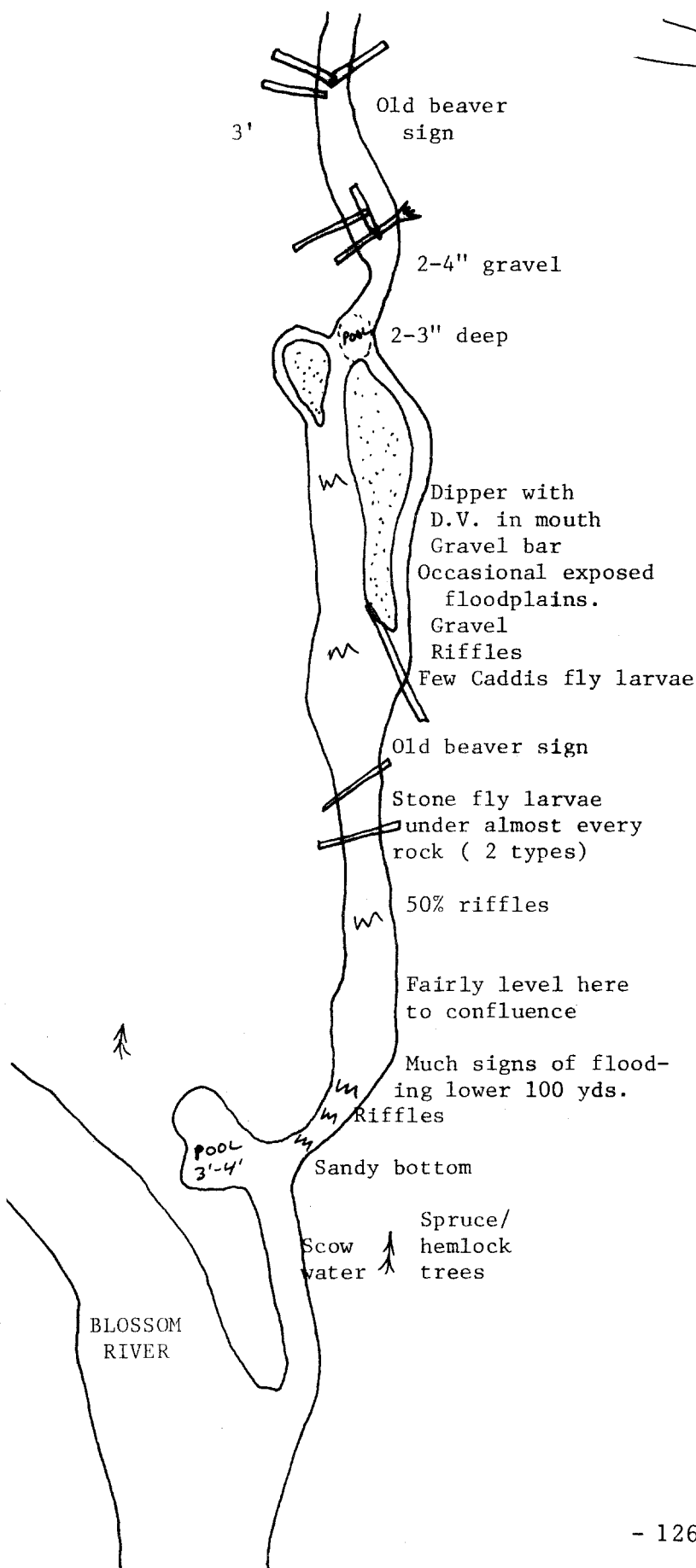
Grassy lilly pad banks.

Blossom River
Tributary #7
6-23-76
R.Larson, Jackinsky

This is a torrential stream with clear water and a very steep gradient. In reality there is no spawning or rearing except at the junction with the Blossom. Stream looks as though it is subject to extreme water levels.



Blossom River
Tributary #12
D. Siedelman
6-23-76



Name: Wilson River Catalog No.: 101-55-20
Latitude: 55 23' 42" WR No.: 29
Longitude: 130 26' 18" K No.: K34
Geodetic Map No.: Ketchikan C-2 Work Area: Ketchikan
Location: Smeaton Bay - Wilson Arm. Watershed Length: 26 miles
Drainage Area: 117.8 sq. miles
Water Supply Type: Lake system (384 acre Wilson Lake) fed by glaciers and several snowfields in the upper drainage.
Trails & Survey Routes: Survey by skiff up to junction with Blossom River, on foot above this point.
Aerial Survey Notes: Excellent conditions - colorless water, light colored substrate and open, wide valley.
Anchorage: Small boat may enter Wilson River cautiously at high tide and anchor in deep pool below Blossom River. Large vessels anchor fair off flats - east side.
Tide Stage when Surveyed: Second half of flood.

FISHERY RESOURCES

Commercial Fisheries: Pink salmon - major species. Other species - chum, coho, king, and red salmon.
Escapement: Spawning area below falls: 188,000 m² (23,000' L x 110' W x 80% ASA). ITZ: 58,000 m² (5000' L x 250' W x 50% ASA). Hi historic: 177,200 pink (1970), 50,000 chum (1948), 11000 coho (1949), 138 king (1953), 25 red (1953), Ave. pink esc. 1961-74 = 80,000.
Timing: Early - July, August. Peak occurs last week of August.
Schooling Areas: Pools in ITZ, large hole below confluence with Blossom R., pool below mouth of Bend Creek, schooling off flats.
Shellfish Potential: Dungeness, tanner and (probably) king crab. shrimp in Wilson Arm. Fair crab production in lower flats.
Sport Fisheries: Steelhead, cutthroat, Dolly Varden, king, pink, chum, red, coho and halibut off flats during salmon runs. (Kokanee in lake.)
Land Use at Present: Recreation and mineral exploration. The lake has two USFS cabins located near the head and at the outlet.
History of Land Use: Handlogging along the lower reaches of the Wilson River occurred in the 1920-30's. Mining interests, recreational use high.
Rehabilitation Potential: None feasible. The stream above Wilson Lake may have potential for rearing coho, king or trout.
Soils: Relatively stable in lower area due to wide watershed characteristics. Valley narrows in stream and above lake with associated slides and erosion.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	
	Number of tracks. Sets of tracks.	<u>2</u>
Geese -----	Number seen on tide flats	<u>65</u>
	Number seen up creek	<u>14</u>
	Number of broods seen	
Mallards ---	Number seen on tide flats	<u>10</u>
	Number seen up creek	
	Number of broods seen	
Mergansers -	Number of broods seen	<u>36</u>
Bald Eagles-	Number seen along creek	<u>2</u>
	Number of nests seen and location	
Seals -----	Number seen at mouth	<u>6</u>
Tide flats -	Estimate length along beach	<u>2</u>
	Estimate depth out from beach	<u>100 yds</u>
	Eel grass present on what percent of flats	<u>2%</u>

Name: Blossom River Catalog No.: 101-55-40
 Latitude: 55 23' 43" WR No.: _____
 Longitude: 130 26' 18" K No.: K34-1
 Geodetic Map No.: Ketchikan C-2 Work Area: Ketchikan
 Location: Smeaton Bay, Wilson Arm, large tributary of Wilson River. Watershed Length: 23 miles
 Water Supply Type: Snowfields, glaciers, small lakes, runoff. Drainage Area: 110 sq. miles.

Trails & Survey Routes: Accessible by light skiff and outboard for about nine miles, remainder by foot, no reported trails.

Aerial Survey Notes: Easily surveyed by light plane from Keta River pass upstream, occasional strong downdrafts on SE side of valley - caution advised.

Anchorage: Large vessels anchor fair off Wilson River flats, east side. Smaller boats may enter Wilson River at high tide, anchor in pool below confluence with Wilson River.

Tide Stage when Surveyed: Second half of flood.

FISHERY RESOURCES

Commercial Fisheries: Pink, chum, king, coho - much potential for both rearing and non-rearing species.

Escapement: Hi historic: 30,000 pink (7-29-51) 4500 chum (10-5-52) 1000 coho (9-26-49)

500 king (8-13-56). Spawning area 344,000 m² (120'Wx47520'Lx65% ASA) Ave. Esc. since 1961:

Species Composition: Pink, chum, king, coho, trout 19,300

Timing: Early - July, August. Peak occurs last week of August.

Schooling Areas: Throughout first 1.3 miles of deep, slow current.

Shellfish Potential: Dungeness, tanner and (Probably) king crab, shrimp in Wilson Arm. Fair crab production lower Wilson River flats.

Sport Fisheries: Steelhead, cutthroat, Dolly Varden, king, pink, chum, coho, halibut off Wilson River flats during salmon runs.

Land Use at Present: Recreation and mineral exploration. Important waterfowl feeding and resting area.

History of Land Use: Mineral exploration, some handlogging in area.

Rehabilitation Potential: None feasible.

Soils: Relatively stable in broad lower reaches, narrow valley and steeper gradient with associated slides and erosion further upstream.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	
	XXXXXXX Sets of tracks.	<u>2</u>
Geese -----	Number seen on tide flats	<u>65</u>
	Number seen up creek	<u>14</u>
	Number of broods seen	
Mallards ---	Number seen on tide flats	<u>10</u>
	Number seen up creek	
	Number of broods seen	
Mergansers -	Number of broods seen	<u>36</u>
Bald Eagles-	Number seen along creek	<u>2</u>
	Number of nests seen and location	
Seals -----	Number seen at mouth	<u>6</u>
Tide flats -	Estimate length along beach	<u>2</u>
	Estimate depth out from beach	<u>100 yds.</u>
	Eel grass present on what percent of flats	<u>2%</u>

STREAM INVENTORY FORM

Name: Wilson - Blossom Rivers

Number: 101-55-20

Observers: Novak, Ahren

Date: 4-25-75

Temperature: 47°

Weather: Clear - calm

Station No.

Pool Size/Type

Riffle Type
Width-Depth

Pool Riffle
Frequency

Bottom Type
(Riffle)

Color/Turbidity

Velocity

Flow (C.F.S.)

Temp. (°F.)

pH

Fry Abundance

Benthos
Sample No.

Higher Plant
Class

Aquatic Veg.
Density
Ident.

(1) Mosses
(2) Algae

1	2	3*													
3/1	3/1	2/1													
153'W .9'D	253'W 1.89'D	165'W 1.82'D													
3	3	3													
4/5	4	4													
2/1	1/1	2/1													
2	2	2													
165	474	355													
38°	40°	40°													
5	5	5													
6-1	6-1	-													
1	1	1													
3	3	3													
2	1	2/1													

General Remarks (rehab., land use, barriers, log jams, etc.): *Station #3 located approximately 1 mile above the mouth

PEAK ESCAPEMENT RECORD

Wilson River
101-55-20

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
9-14-38		5,000		Few pink. 1000 off mouth.
9-13-39	1,000			Poor. Majority of fish females.
9-13-40	6,000	2,000		Poor. 2000 off mouth.
9-18-43	30,000	5,000		Fair.
8-4-48	150,000	50,000	100 king	Excellent.
9-1-49	120,000	12,000		60,000 pink, 6,000 chum, 1000 king above marker.
8-18-50	100,000	7,000	Some coho, 10 king	Some dead chum.
7-30-51	79,600	150	60 kings	Very few fish in Smeaton Bay. 4000 above marker.
8-31-51	29,000	300	100 coho, 8 red, 25 kings	Few dead chum. Schools @ mouth.
8-8-52	72,000	400	50 kings	Few dead pink. Fish well distributed through left fork.
8-25-53	40,000			Poor. Few 1000 above forks.
8-23-54	26,500			Few chum. 6000 above marker.
9-15-55	20,000			Several 1000 at mouth.
9-3-56	100,000	5,000		
8-7-57	9,100	1,500	14 kings	
8-9-60	21,000	some		
8-9-61	10,800	some		Fresh fish moving up.
8-25-62	56,000			Good visibility. Several 100 dead.
8-8-63	40,000	10,000		Excellent visibility. Chums spawning. Pinks mostly schooled in pools. 4000 @ I.T.
9-1-64	65,000	10,000		Visibility excellent. Fish mostly spawning. 50 I.T.
8-26-65	36,000	1,500	36 kings	225 intertidally.
8-13-66	93,000	2,500	few kings	500 I.T. spawning heavily - many "C" dead. Several small schools.

PEAK ESCAPEMENT RECORD

Wilson River
101-55-20

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
8-21-67	8,100	few		Poor visibility.
8-27-68	58,000	2,000	few kings	Visibility excellent. Heavy spawning activity. Many carcasses I.T.
8-20-69	12,000 -	mixed	10 kings	Streams very high, pinks showing in pools but too dark to estimate
8-6-70	177,200			Visibility good. Some shadows.
8-22-71	174,000			Spread out and spawning. Visibility good, well distributed.
8-14-72	107,400	good		Visibility good. Few 1000 dead.
8-21-73	128,000			Visibility good.
8-27-74	152,000			1000 dead carcasses. Visibility excellent.
8-20-75	170,000			Visibiility good.
				- 131 -

PEAK ESCAPEMENT RECORD

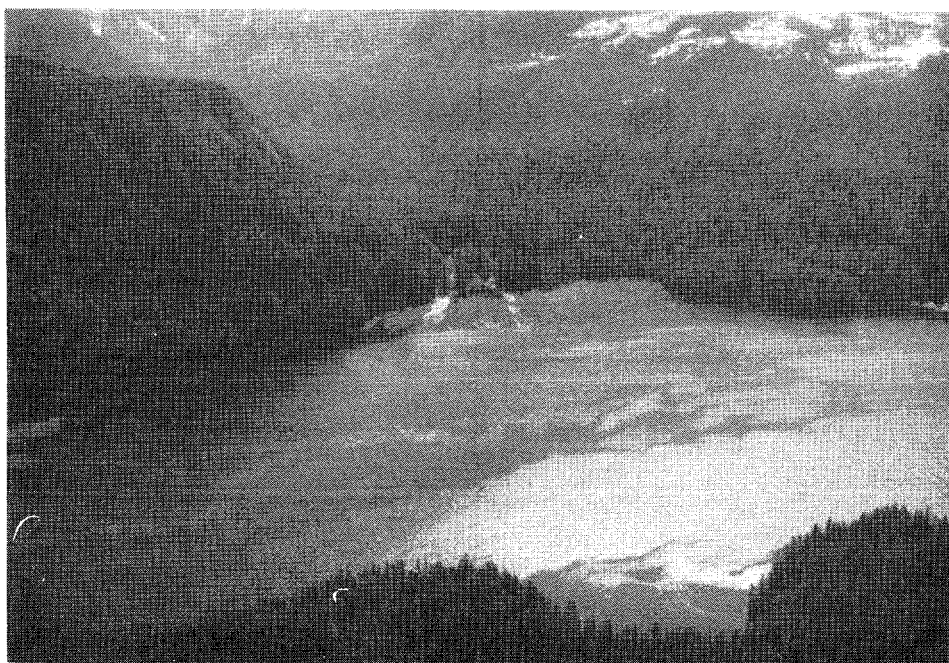
Blossom River
101-55-40

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
8-6-49	15,500	1		
7-30-50	6,000			
7-29-51	30,000			
7-29-52	6,900	50		
9-30-53	450	70	2 kings	
8-12-54	500			
7-31-55				
8-13-56	3,000		500 kings	
8-19-57	300		100 kings	
8-9-60	the only survey			Visibility poor. Lots of silt.
7-28-61		20		the only survey. Spread out.
7-18-62	4,100			Visibility excellent.
8-21-63	800	few	75 kings	
8-5-64	6,000	1,000		Good visibility, chums spawning, some dead.
8-18-65	1,000	500	few kings	Good visibility, chums spawning.
8-13-66	26,000	1,000	150 kings	All spawning. Fish entire length.
8-14-67	780-mixed			Visibility excellent except some shaddow on lower stream. 400 @ mouth.
8-5-68	76,000	5,000		Visibility excellent. Mostly spread and spawning fish to block. 1000 @ mouth.
7-29-69	1,100	100		Good visibility.
8-6-70	58,300			Visibility excellent for this stream. Few 100 dead.
8-28-71	5,000			Visibility good. Small bunches really spread out - upper.
8-2-72	47,000			Visibility good, some glare, milky.

PEAK ESCAPEMENT RECORD

Blossom River
101-55-40

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
8-17-73	3,700			70% chum. Visibility good.
8-14-74	40,000			Count low due to glare. Clear & calm.
8-11-75	11,000	700	146 kings	Visibility excellent.
- 133 -				

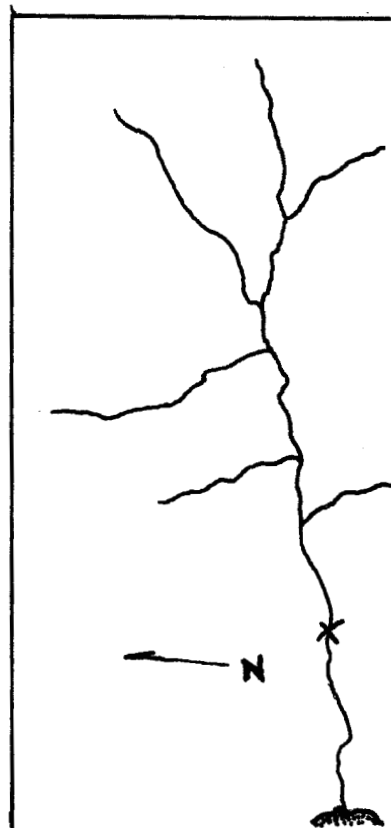
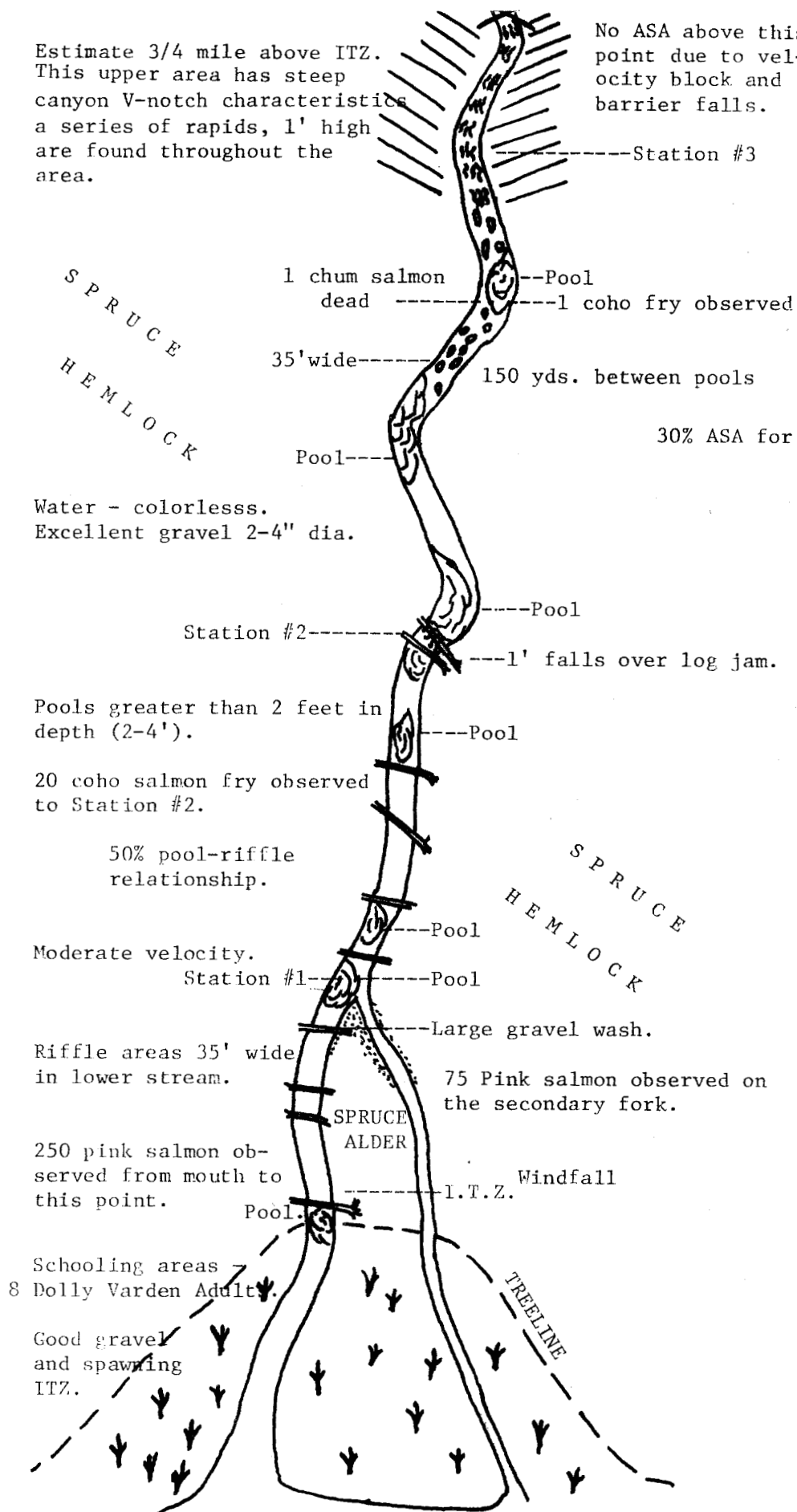


101-55-50, Wolverine Creek in Wilson Arm, 6-5-76

Estimate 3/4 mile above ITZ.
This upper area has steep
canyon V-notch characteristics
a series of rapids, 1' high
are found throughout the
area.

No ASA above this
point due to vel-
ocity block and
barrier falls.

Wolverine Creek
101-55-50
Novak - Downey
9-18-74



Name Wolverine Creek Catalog No. 101-55-50
 Latitude N 55° 22' 28" WR No. 29A
 Longitude W 130° 36' 36" K No. 34A
 Geodetic Map No. Ketchikan B-2 Work Area Ketchikan
 Location Smeaton Bay - Wilson Arm Watershed Length 4.25 miles
 Drainage Area of Watershed 9.6 sq. miles (polar planimeter)
 Water Supply Type Ground water and precipitation.

Trails & Survey Routes Easy walking in the stream bed, some bear trails are found along the lower stretches of the creek.

Aerial Survey Notes Trees overshadow the stream for the entire distance making aerial survey techniques impractical.

Anchorage Anchor off the Wilson River flats in 18 fathoms of water. Refer to Wilson River section. Approximately 1/4 mile south of creek mouth.

Tide Stage When Surveyed Second half of flood.

FISHERY RESOURCES

Commercial Fisheries Pink, chum and coho salmon are the major salmonids found annually. Stray red salmon (few) may enter also.

Escapement High historic - 5000 pink - 1940, 408 chum - 1948, 1974 326 pink, and 1 chum. Spawn. area: 3863 m²(30% ASA, L 3960', W. 35')

Species Composition 95% pink, 4% chum, 1% coho.

Timing Late - September.

Schooling areas School in pool at treeline and also off flats but impossible to distinguish from Wilson River fish.

Shellfish Potential Good Dungeness crab fishing at head of Wilson Arm; Tanner crab also taken at head of Arm. Poor clam production.

Sport Fisheries Coho, Pink, Chum, Dolly Varden and sea run cutthroat may be found in this system.

Land Use at Present None known.

History of Land Use Some hand logging of large spruce occurred in the lower watershed approximately 30-40 years prior.

Rehabilitation Potential None necessary as the windfall is not presenting a problem to spawning salmon.

Soils Stable in lower 1/2 mile but V-notched situation starts approximately 3/4 mile upstream with apparent erosion problems.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or <u>fresh</u>) on banks, estimate	15
	Number of droppings	2
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	25
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	1/2 mile
	Estimate depth out from beach	150'
	Eel grass present on what percent of flats	1%

STREAM INVENTORY FORM

Name: Wolverine Creek

Number: 101-55-50

Observers: Novak, Downey

Date: 9-18-74

Temperature: 60°

Weather: Overcast -raining

Station No.	1	2	3												
Pool Size/Type	2/1	2/1	3/1												
Riffle Type Width-Depth	35'W 8" D	35'W 8"D	35'W 8"D												
Pool Riffle Frequency	3	2	3												
Bottom Type (Riffle)	4	4/5	5												
Color/Turbidity	1/1	1/1	1/1												
Velocity	2	2	2												
Flow (C.F.S.)	31.4														
Temp. (°F.)	49°	49°	49°												
pH	5	5	5												
Fry Abundance	* 2-8	1-20	1-1												
Benthos Sample No.															
Higher Plant Class	1	1	1												
Aquatic Veg. Density	3	3	2												
Ident. (1) Mosses (2) Algae	2	2	2/1												

General Remarks (rehab., land use, barriers, log jams, etc.):

* Adults

Stream was slightly above normal flow at time of survey.

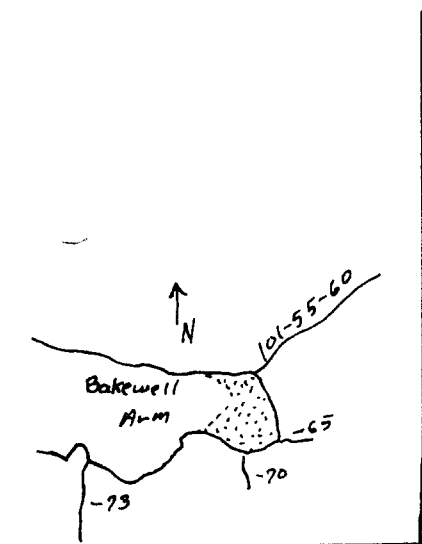
PEAK ESCAPEMENT RECORD

Wolverine Creek
101-55-50

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
9-13-39	500			Most fish males, indicating pre-season escapement.
9-29-40	5,000			Fair.
9-28-46				Good.
8-20-47				Many dead.
9-24-48	1,040	52		40 dead pink.
9-14-51	2,150	10	coho present.	All schooled intertidal. 100 dead pinks.
8-14-67				35 pinks I.T. Visibility excellent.
8-20-75				3600 I.T. Visibility good.

- 138 -

Bakewell Arm
101-55-60
9-19-74
Downey, Joyner



Area of windfall and is braided. Swifter water.

Appears to continue for quite a distance.

Stopped 1.25 miles above I.T.
Width - 30' (station #2)
Depth - 10"

20 chum, a couple approach 20 pounds.

Good gravel and spawning area. Gravel is 2-6" with some boulders.

50 live pink.
50 carcasses.

Some very good pool and rearing area within the stream. Saw many coho fry.

60% available spawning area.

Easy stream to walk, stable banks and good gravel bars.

Gravel size is 2-4" with some larger boulder type gravel.

Split channel area and windfall, no barrier.

Good gravel and spawning area.

25 live pinks.
20 carcasses.

Appears to be a very good stream.

More constricted with more velocity here. Approximately 40' wide and 10" deep. Still good gravel 2-6".
20 live pinks.
30 carcasses.

Small tributary

60' wide.
50 live pink.
Several pink carcasses

Station #1 : 200 yards of I.T. area. Generally larger gravel but looks pretty good. Some areas here are somewhat swift, but mostly o.k.

Gravel is 2-6".

Grassy

Large grass flats

Name Bakewell Arm - Left Head Catalog No. 101-55-60
Latitude _____ WR No. _____
Longitude _____ K No. 33
Geodetic Map No. Ketchikan B-2 Work Area Ketchikan
Location Bakewell Arm - Smeaton Bay Watershed Length 5.5 Miles
Drainage Area of Watershed _____
Water Supply Type Precipitation, runoff

Trails & Survey Routes Walk in the stream. Flat gradient with good gravel bars to walk on.

Aerial Survey Notes Large type stream and should be able to survey by airplane.

Anchorage At the head of Bakewell Arm. Refer to the Alaska Coast Pilot and navigation chart

Tide Stage When Surveyed Tide out and starting to flood.

FISHERY RESOURCES

Commercial Fisheries Pink, chum and coho

Escapement 7,700 on 8-7-73 and 10% chum; 4,600 on 8-18-70

Spawning area: 16,304 m² (6500'x45'x60% ASA)

Species Composition 90% pink, 10% chums

Timing Middle

Schooling areas Off the mouth or pools within the stream.

Shellfish Potential Clams in the intertidal and good crab fishing at the head.

Sport Fisheries None seen but it certainly has the potential.

Land Use at Present None

History of Land Use None

Rehabilitation Potential None to the point walked.

Soils Flat gradient and soils stable.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	<u>several</u>
	Number of droppings	<u>a few</u>
Geese -----	Number seen on tide flats	<u>0</u>
	Number seen up creek	<u>0</u>
	Number of broods seen	<u>0</u>
Mallards ---	Number seen on tide flats	<u>0</u>
	Number seen up creek	<u>0</u>
	Number of broods seen	<u>0</u>
Mergansers -	Number of broods seen	<u>1</u>
Bald Eagles--	Number seen along creek	<u>2</u>
	Number of nests seen and location	<u>0</u>
Seals -----	Number seen at mouth of stream	<u>2</u>
Tide flats -	Estimate length along beach	<u>-</u>
	Estimate depth out from beach	<u>-</u>
	Eel grass present on what percent of flats	<u>-</u>

STREAM INVENT : FORM

Observers: Downey, Joyné

Date: 9-19-74

Name: Bakewell Arm -

Temperature: 56°

Number: 101-55-60

Weather: Overcast

Station No.	1	2													
Pool Size/Type	2/1	2/1													
Riffle Type	60'W	30'W													
Width-Depth	10''D	10''D													
Pool Riffle Frequency	3	3													
Bottom Type (Riffle)	4	4													
Color/Turbidity	1/1	1/1													
Velocity															
Flow (C.F.S.)	47.5														
Temp. (°F.)	50°	50''													
pH															
Fry Abundance		100-8													
Benthos Sample No.	0	0													
Higher Plant Class	1	2													
Aquatic Veg. Density	3	3													
Ident.	/	/													
(1) Mosses															
(2) Algae	2	2													

General Remarks (rehab., land use, barriers, log jams, etc.):

PEAK ESCAPEMENT RECORD

Bakewell Creek
101-55-60

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
10-8-28	4,000			
9-29-37	1,500	1,500		Poor.
9-13-39	2,000			Poor.
9-13-40	3,000	1,000		Fair. 2000 off mouth
9-26-41	40,000			Good.
9-17-45	20,000			Good. Few chum.
10-11-46				Poor to fair.
9-24-47	3,000	600		Fair.
9-23-48	6,010	78		5000 chum 8-25. 10 dead pink.
8-18-49	4,400	30	200 coho	150 dead pink.
8-23-50	1,690	44	27 red	
8-8-51	6,100	15		None see off mouth. 73 dead pink. 4 dead chum.
8-14-52	3,570	36		120 dead pink, 8 dead chum.
8-21-53	450	40	61 red	
7-31-54	50			Only 2 surveys made.
9-1-56	300			
8-26-60				No fish present.
8-21-61				None observed.
9-4-63				None observed I.T. Vis. good.
8-20-64	300	40		Vis. good. Stream high, most spawning.
8-23-65				1500 I.T. Stream low.
8-18-66	200			Some activity observed.
8-18-70	600			4000 @ mouth & I.T. Vis. good.
8-10-71				Some jumps in bay.
8-7-73	5,200	10%		2500 @ mouth. Visibility good.

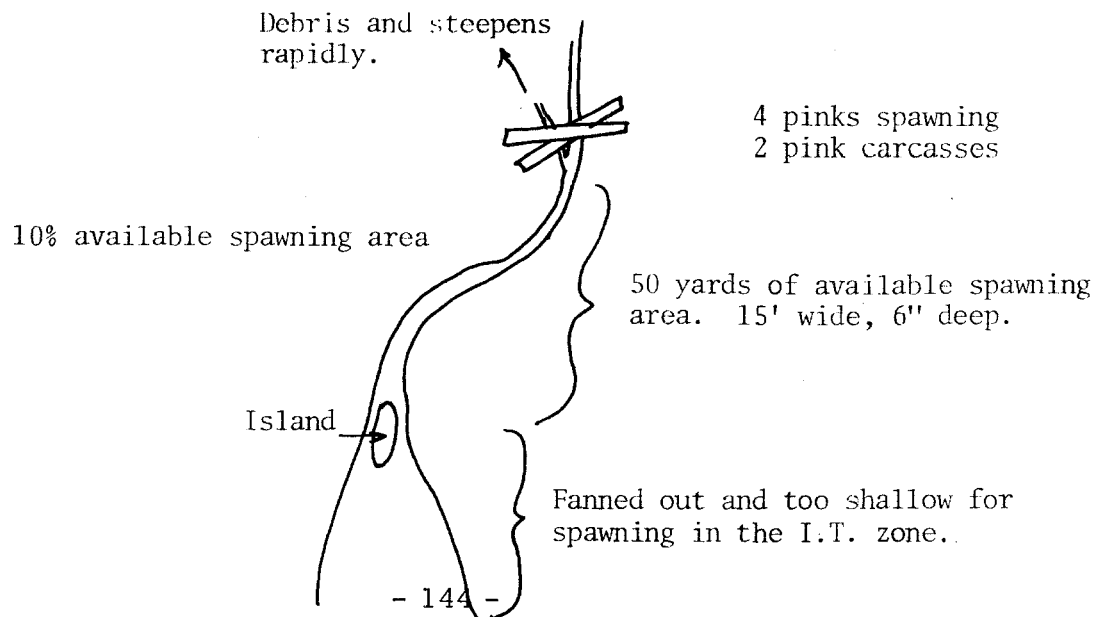
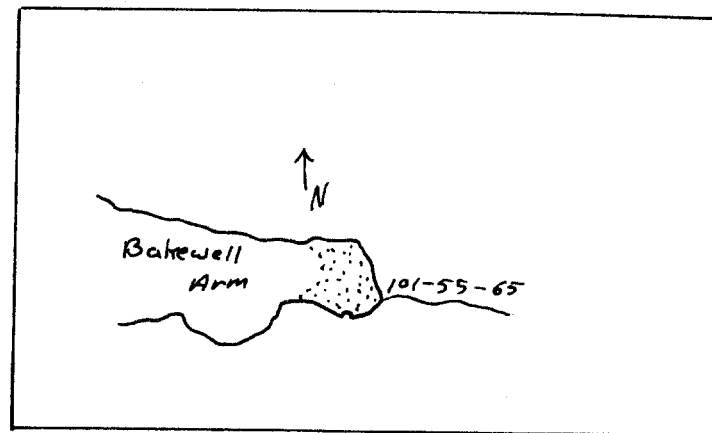
PEAK ESCAPEMENT RECORD

Bakewell Creek
101-55-60

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
8-27-74				4000 @ I.T. & lower stream.
8-9-75				6000 @ I.T. & mouth.

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Bakewell Arm
101-55-65
9-19-74
Downey, Joyner



Name Bakewell Arm - Head Catalog No. 101-55-65
 Latitude _____ WR No. _____
 Longitude _____ K No. _____
 Geodetic Map No. Ketchikan B-2 Work Area Ketchikan
 Location Bakewell Arm - Smeaton Bay Watershed Length Not on charts
 Drainage Area of Watershed _____
 Water Supply Type Precipitation - runoff, springs.

Trails & Survey Routes Short stream so can't walk far anyway but walk in the stream.

Aerial Survey Notes Small stream, only the intertidal zone could be surveyed by airplane.

Anchorage At the head of Bakewell Arm. Refer to the Alaska Coast Pilot and navigation chart.

Tide Stage When Surveyed Low tide.

FISHERY RESOURCES

Commercial Fisheries Pink

Escapement 6 pink on 9-19-74:

Spawning area: 21 m² (150'x15'x10% ASA)

Species Composition 100% pink

Timing Middle

Schooling areas Off the mouth

Shellfish Potential Clams in the intertidal zone and good crab fishing at the head.

Sport Fisheries None - too small.

Land Use at Present None

History of Land Use None

Rehabilitation Potential Too small.

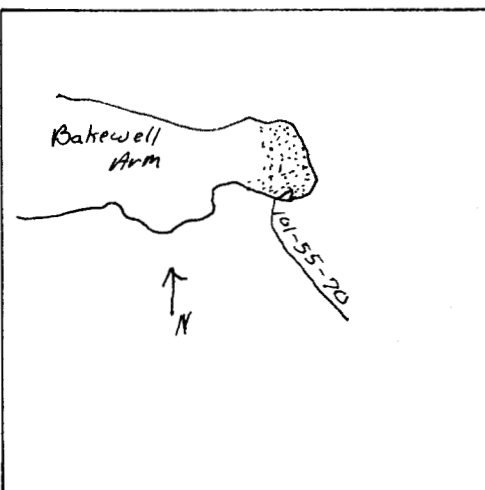
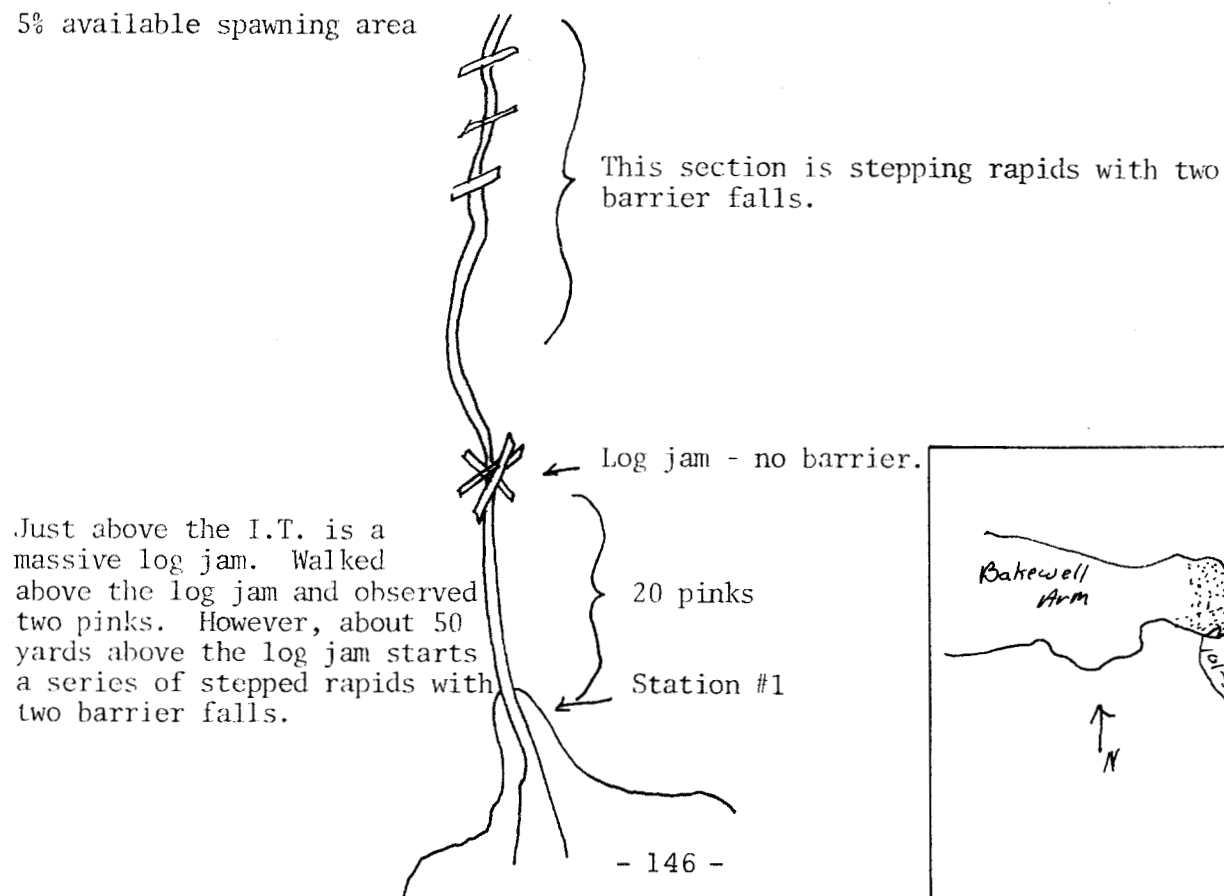
Soils Stable to the point where I stopped walking however, the stream continues steeply beyond this point and they may become unstable.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	<u>2</u>
	Number of droppings	<u>0</u>
Geese -----	Number seen on tide flats	<u>0</u>
	Number seen up creek	<u>0</u>
	Number of broods seen	<u>0</u>
Mallards ---	Number seen on tide flats	<u>0</u>
	Number seen up creek	<u>0</u>
	Number of broods seen	<u>0</u>
Mergansers -	Number of broods seen	<u>0</u>
Bald Eagles-	Number seen along creek	<u>0</u>
	Number of nests seen and location	<u>0</u>
Seals -----	Number seen at mouth of stream	<u>0</u>
Tide flats -	Estimate length along beach	<u>-</u>
	Estimate depth out from beach	<u>-</u>
	Eel grass present on what percent of flats	<u>-</u>

Bakewell Arm - Right Head
101-55-70
9-19-74
Downey, Joyner

5% available spawning area



Name Bakewell Arm - Right Head Catalog No. 101-55-70
Latitude _____ WR No. _____
Longitude _____ K No. _____
Geodetic Map No. Ketchikan B-2 Work Area Ketchikan
Location Bakewell Arm - Smeaton Bay Watershed Length 3-1/4 miles
Drainage Area of Watershed _____
Water Supply Type Small lakes, precipitation

Trails & Survey Routes No trails and only a short distance to a barrier. Walk in the stream.

Aerial Survey Notes Too small with too much overstory for aerial surveying.

Anchorage At the head of Bakewell Arm. Refer to the Alaska Coast Pilot and navigation chart.

Tide Stage When Surveyed Low tide.

FISHERY RESOURCES

Commercial Fisheries Pink - probably chum and coho

Escapement Limited spawning and rearing area available due to barrier falls just above the ITZ.

Species Composition 99% pink

Timing Middle

Schooling areas Off the mouth.

Shellfish Potential Clams in the intertidal zone and good crab fishing at the head.

Sport Fisheries Unknown but probably very little.

Land Use at Present None

History of Land Use None

Rehabilitation Potential None - too small.

Soils Stable to the point where we stopped walking, however, the stream continues steeply beyond this point and they may become unstable.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	6
	Number of droppings	2
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	-
	Estimate depth out from beach	-
	Eel grass present on what percent of flats	-

STREAM INVENT / FORM

Name: Bakewell - Right Head

Number: 101-55-70

Observers: Downey, Joyne

Date: 9-19-74

Temperature: 58°

Weather: Overcast

Station No.

1

Pool Size/Type

2/1

Riffle Type
Width-Depth

Pool Riffle
Frequency

3

Bottom Type
(Riffle)

4

Color/Turbidity

1/1

Velocity

Flow (C.F.S.)

9.9

Temp. (°F.)

52°

pH

Fry Abundance

0

Benthos
Sample No.

0

Higher Plant
Class

2

Aquatic Veg.
Density

3

Ident.

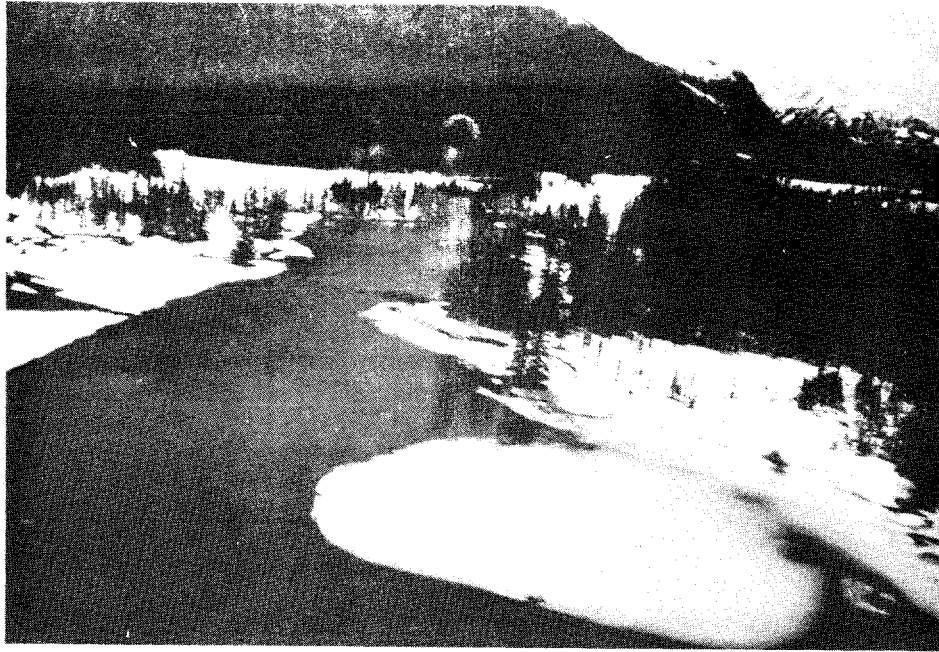
/

(1) Mosses

(2) Algae

2

General Remarks (rehab., land use, barriers, log jams, etc.):

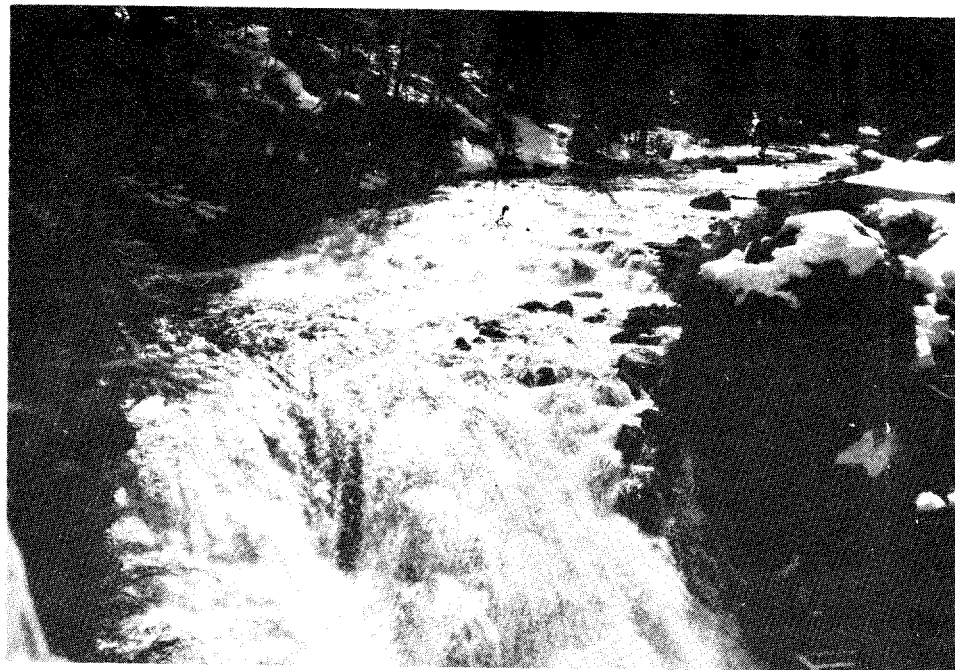


BAKEWELL LAKE
Upper End



Stream between Badger and Bakewell
Lakes.

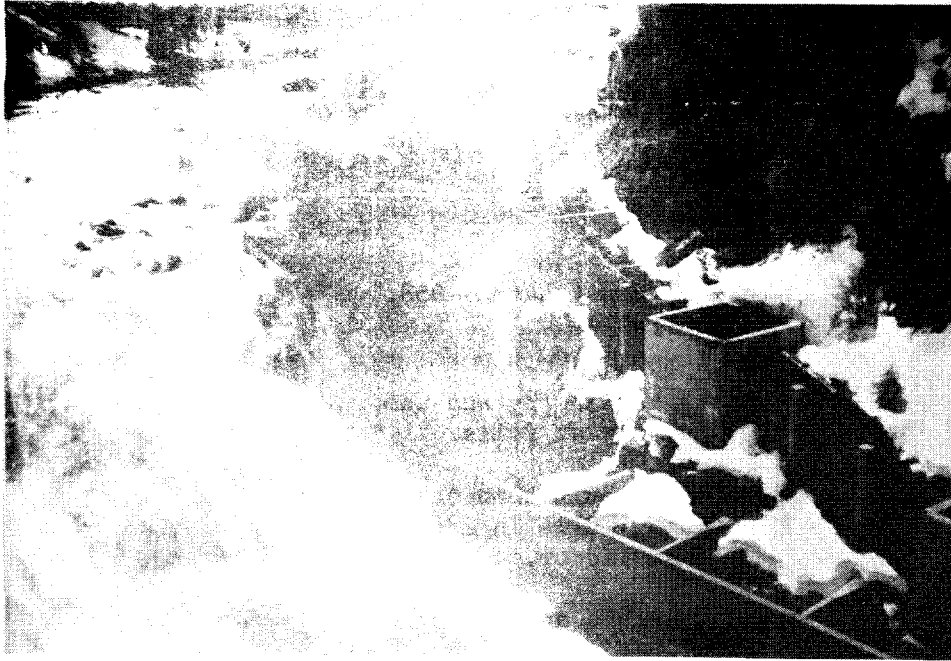
Badger Lake in background.



BAKEWELL LADDER



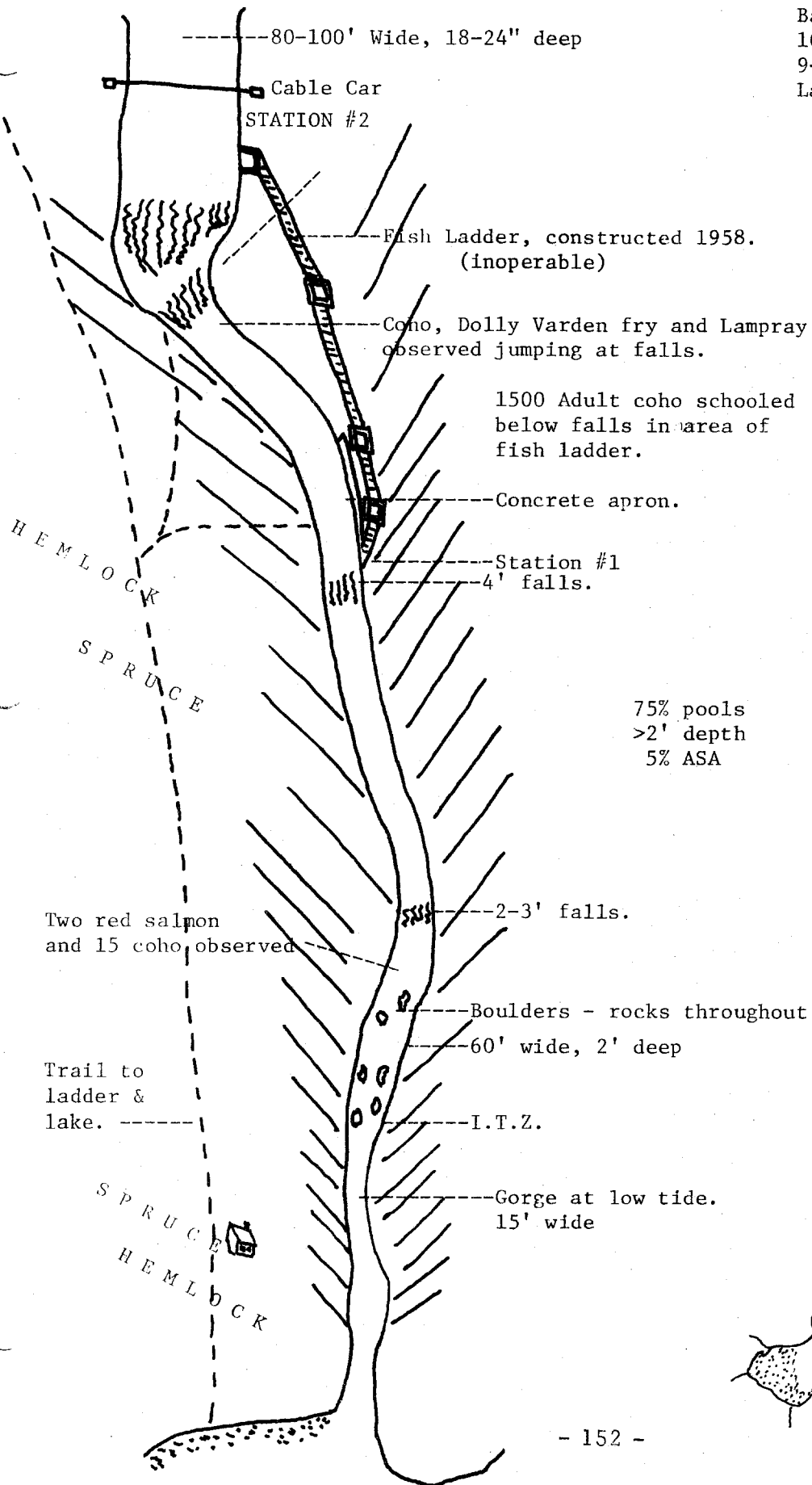
BAKEWELL LAKE LADDER



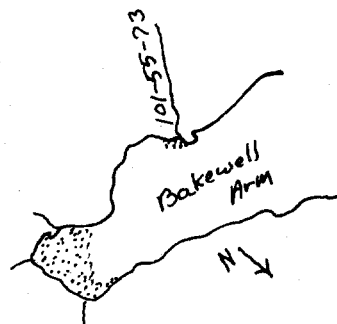
BAKEWELL LAKE LADDER

-----Bakewell Lake

Bakewell River
101-55-73
9-18-74
Larson, Novak



75% pools
>2' depth
5% ASA



Name Bakewell River Catalog No. 101-55-73
 Latitude N 55° 17' 54" WR No. 28
 Longitude W 130° 38' 53" K No. 32
 Geodetic Map No. Ketchikan B-2, B-3, A-3 Work Area Ketchikan
 Location Smeaton Bay - Bakewell Arm Watershed Length 8 miles
 Drainage Area of Watershed 32 Sq. miles (Polar Planimeter)
 Water Supply Type Large lakes (2) with precipitation and ground water supplements

Trails & Survey Routes A good trail to the lake on east side of river does not follow the river. Walking along the stream is nearly impossible.

Aerial Survey Notes Muskeg colored waters. Deep V-notched canyon with poor aerial access, except with helicopter.

Anchorage Good anchorage off shore from the Forest Service trail marker. Seven fathoms of water available.

Tide Stage When Surveyed Second half of ebb.

FISHERY RESOURCES

Commercial Fisheries Coho, pink, chum and red salmon.

Escapement 2 red, 15 pink, 1500 coho - 1974.

Spawning area: 368 m² estimated below falls.

Species Composition 1974 - coho 95%, pink 4%, red and chum 1%.

Timing Late - September.

Schooling areas School below the 40 foot falls barrier was observed fish outside School along the shoreline near mouth of river.

Shellfish Potential Dungeness crab at head of Arm, but no new reports off mouth of river. No clam potential.

Sport Fisheries Coho, pink, chum, red salmon, cutthroat. Possible small run of steelhead. Dolly Varden, cutthroat and rainbow found in lakes.

Land Use at Present None other than cabin on lake and trail leading from salt-water to lake.

History of Land Use Fish ladder constructin began in 1958 with operation until 1972. Unsuccessful due to design of construction.

Rehabilitation Potential Relocate or re-design steep pass in area of old ladder. Excellent rearing system above falls.

Soils Unstable in area below the falls. V- notch situation from falls to the mouth with sluffing soils.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or <u>fresh</u>) on banks, estimate	2
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	0
	Estimate depth out from beach	0
	Eel grass present on what percent of flats	0

Wolf and wolverine sign plentiful on lakes. One wolverine sighted during 4-75 survey.

STREAM INVENTORY FORM

Name: Bakewell River

Number: 101-55-73

Observers: Novak - Larson - Ahrendt

Date: 9-18-74 & 4-24-75

Temperature: 60°F & 46°F

Weather: Overcast Clear

Station No.

Pool Size/Type

Riffle Type
Width-Depth

Pool Riffle
Frequency

Bottom Type
(Riffle)

Color/Turbidity

Velocity

Flow (C.F.S.)

Temp. (°F.)

pH

Fry Abundance

Benthos
Sample No.

Higher Plant
Class

Aquatic Veg.
Density

Ident.

(1) Mosses

(2) Algae

1	2	3													
2/1	2/1	3/2													
60'W 24"D	90'W 18"D	60'W 12"D													
1	2	3													
5	4/5	4/5													
2	2	2													
2	2	2													
48°	36°	36°													
5	5	5													
1- 2-1	-	-													
-	-	-													
1	2	*													
2	2	3													
1/2	1/2	1/2													

General Remarks (rehab., land use, barriers, log jams, etc.):

* Cedar - hemlock

PEAK ESCAPEMENT RECORD

Bakewell River (ladder)
101-55-73

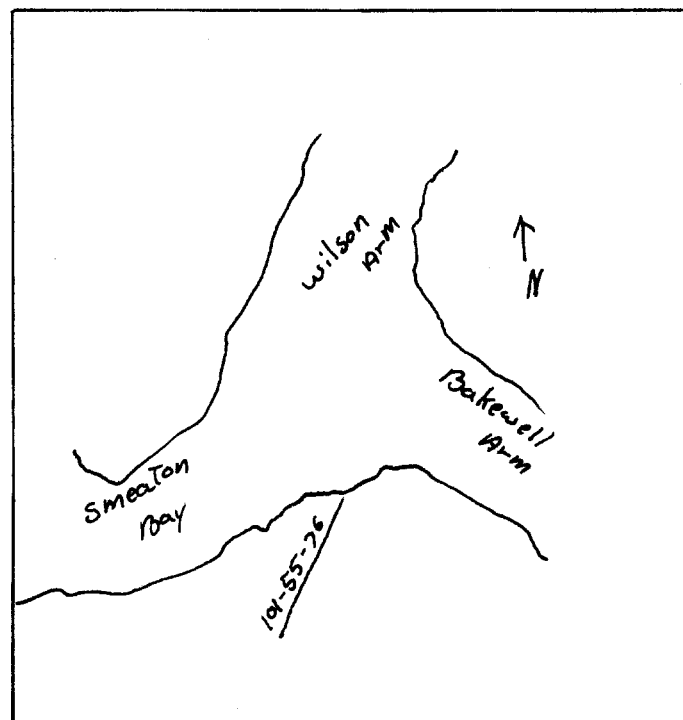
DATE	PINK	CHUM	OTHER SPECIES	REMARKS
??-63	400		154 red	20 dead females, 17 males. 7 females were spawned.
9-1-64			154 red	7 dead, females were spawned.
8-31-66			9 red	Visibility poor. Water high.
9-15-74			100 coho, 2 reds	
9-5-75			50 red On 7-25. 400 coho	
			- 155 -	

101-55-76

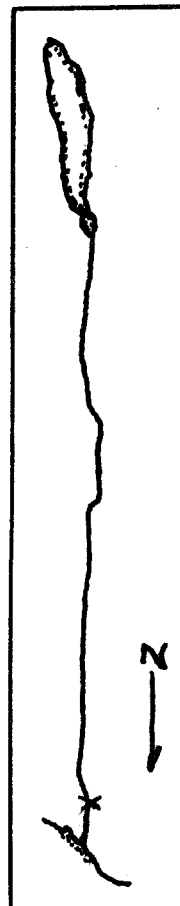
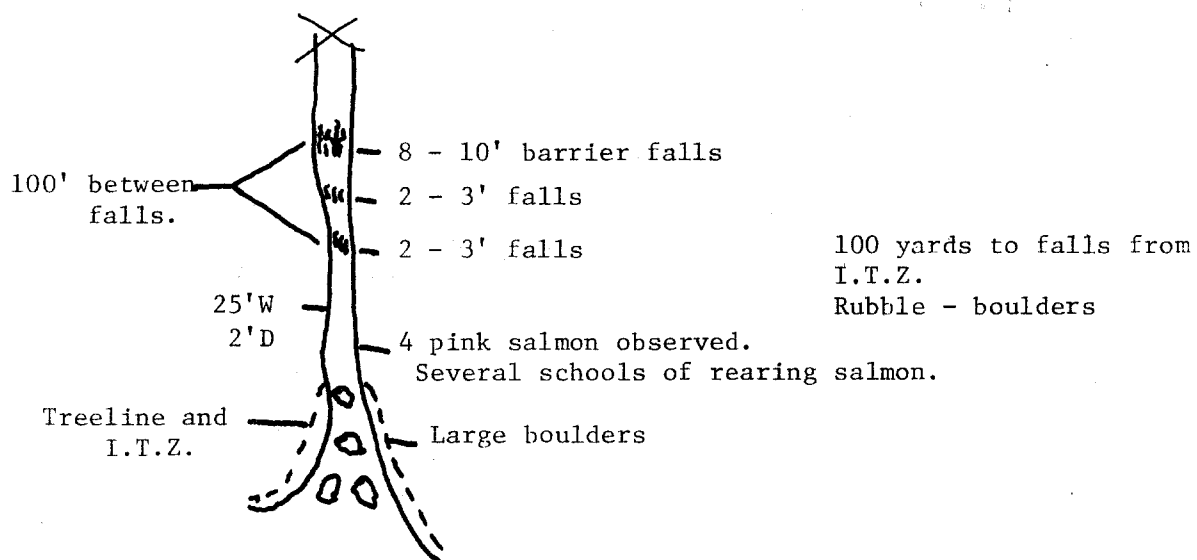
9-19-74

Downey, Larson

This is a small stream and would have little or no spawning potential.
Mostly large boulders in the intertidal zone and the stream goes up
rapidly and steeply. Located Bakewell Arm, just outside.



Heavy Creek
101-55-79
Downey, Larson
9-19-74



Name Heavy Creek Catalog No. 101-55-79
Latitude N 55° 17' 53" WR No. _____
Longitude W 130° 44' 40" K No. _____
Geodetic Map No. Ketchikan B-3, A-3 Work Area Ketchikan
Location so. side Smeaton B. 5.5 m. E. Carp Watershed Length 3.75 miles
Drainage Area of Watershed 6.9 sq. miles (polar planimeter)
Water Supply Type Lake primary source, supplemented by ground water and precipitation.
Trails & Survey Routes Very difficult walking at lower end due to angular rocks and boulders.
Aerial Survey Notes Very small stream with canopy effect. Short stream availability makes aerial surveying impractical.
Anchorage None in near area of stream.

Tide Stage When Surveyed 1st half of ebb.

FISHERY RESOURCES

Commercial Fisheries Pink, coho and possibly chum.

Escapement 4 pink salmon observed in 1974.

Spawning area: 105 m² (300'x25'x15% ASA)

Species Composition Unknown.

Timing Late - September, October.

Schooling areas Unknown.

Shellfish Potential Potential for shrimp, king-tanner crab present in Boca de Quadra.

Sport Fisheries Cutthroat trout found in the lake at head waters. Coho and pink salmon at mouth.

Land Use at Present None

History of Land Use None known.

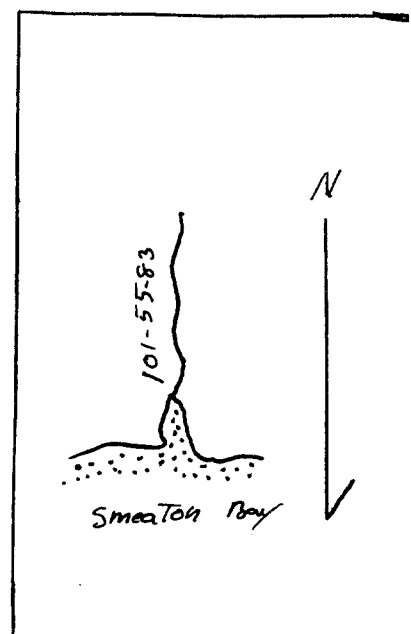
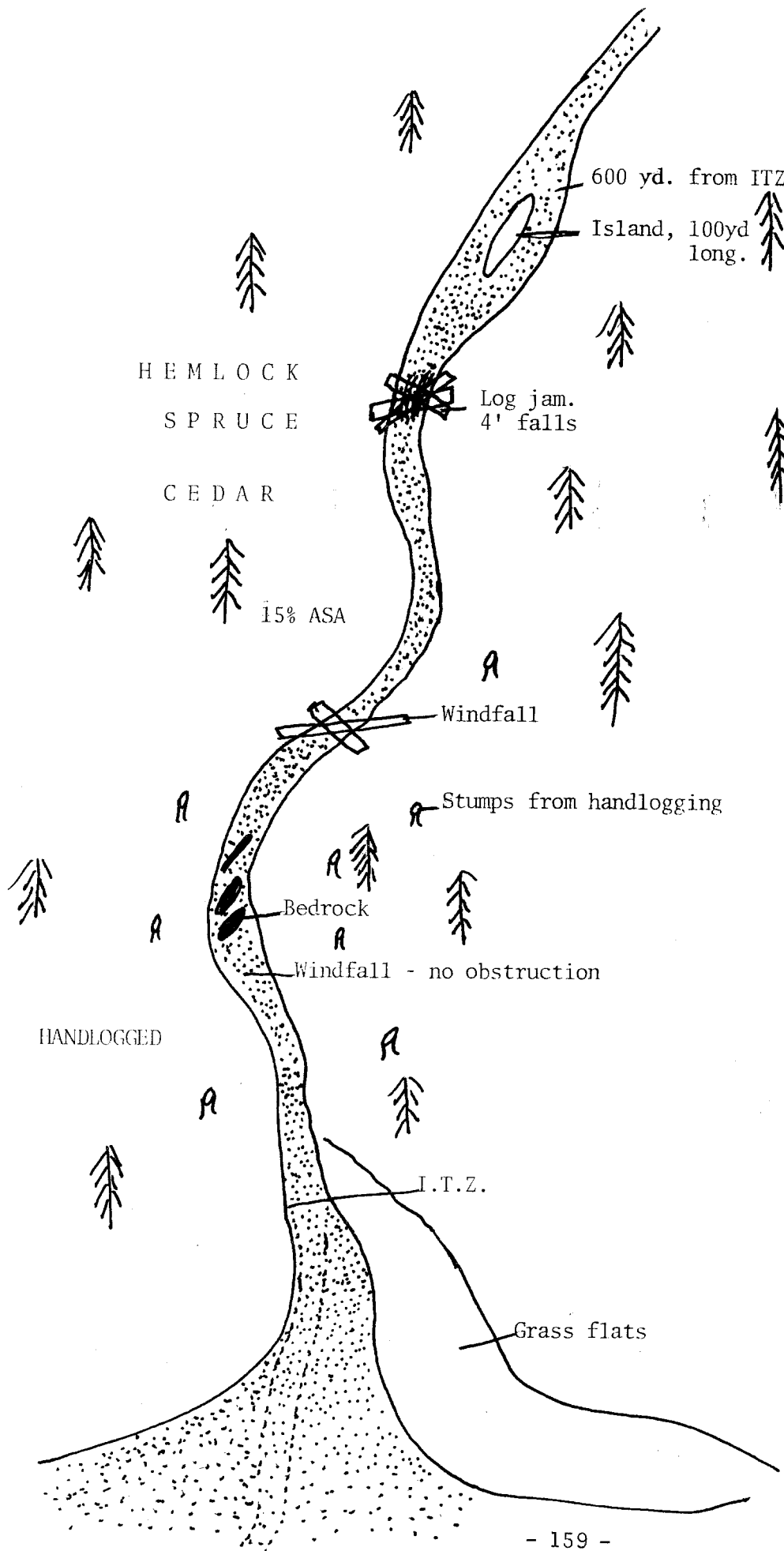
Rehabilitation Potential None

Soils Stable in area of stream mouth.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	-
	Number of droppings	-
Goose -----	Number seen on tide flats	-
	Number seen up creek	-
	Number of broods seen	-
Mallards ---	Number seen on tide flats	-
	Number seen up creek	-
	Number of broods seen	-
Mergansers -	Number of broods seen	-
Bald Eagles-	Number seen along creek	-
	Number of nests seen and location	-
Seals -----	Number seen at mouth of stream	-
Tide flats -	Estimate length along beach	-
	Estimate depth out from beach	-
	Eel grass present on what percent of flats	-

Red Creek
101-55-83
6-25



Name Red Creek Catalog No. 101-55-83
Latitude N 55° 17' 03" WR No. _____
Longitude W 130° 49' 08" K No. _____
Geologic Map No. Ketchikan, B-3 Work Area Ketchikan
Location S. side Smeaton B. 2 1/4 m. E. Carp Is. Watershed Length 3.1 miles
Drainage Area of Watershed 9.0 sq. miles
Water Supply Type Ground water fed by precipitation

Trail & Survey Routes Stream bed provides fairly easy walking.

Trail Survey Notes Air survey is possible for most of this stream.

Anchorage Good anchorage behind Carp Island. Hard bottom enables safe anchorage close in at 5 fathoms.

Tide Stage When Surveyed 1st half of flood

FISHERY RESOURCES

Commercial Fisheries Pink, coho, chum

Escapement Unknown - no historical data on record.
(1800' L x 43' W x 15% ASA) Spawning area: 1079 m²

Species Composition Pink, coho, chum

Timing Late - September, October.

Schooling areas Off mouth of stream.

Shellfish Potential Possibly dungeness crab, none sampled.

Sport Fisheries Pink, coho, chum, Dolly Varden, cutthroat

Land Use at Present None, other than recreation

History of Land Use Handlogging

Rehabilitation Potential Windfall could be cleared from stream bed.

Soils Appeared to be fairly stable.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	2 live bear
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	4
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles--	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	200 yds.
	Estimate depth out from beach	50 yds.
	Eel grass present on what percent of flats	2%

STREAM INVENTORY FORM

Name: Red Creek

Number: 101-55-83

Observers: Ward, Jones

Date: 6-25-75

Temperature: 55°

Weather: Overcast

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Station No.	1														
Pool Size/Type	3/3														
Riffle Type Width-Depth	43'W .63'D														
Pool Riffle Frequency	3														
Bottom Type (Riffle)	4/6														
Color/Turbidity	1/1														
Velocity	2														
Flow (C.F.S.)	30.2														
Temp. (°F.)	54°														
pH	5														
Fry Abundance															
Benthos Sample No.															
Higher Plant Class	1														
Aquatic Veg. Density	3														
Ident. (1) Mosses (2) Algae	1														

General Remarks (rehab., land use, barriers, log jams, etc.):

PEAK ESCAPEMENT RECORD

Smeaton Bay 2 miles E. Carp Island
101-55-83

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
9-13-40	500			Fair. 1000 @ mouth.
9-27-41	1,000			Good.
8-26-48				No fish seen.
8-28-49				No fish seen. Water very low.
9-14-51	200			Fish in lower Intertidal.
9-4-63				Boulders & rock bottom - partial barrier 1/8 mile.
6-29-70				None observed. Vis. good.

101-55-87
6-25-75
Ward - Jones

1000 yds. from I.T.Z.

--Pool 80'W, 4' D

Large Log

70'W

SPRUCE
HEMLOCK
CEDAR

Picture #8, 700 yds from ITZ

Pool, 70'W, 4'D

40% ASA

Sand & Gravel

Aerial Survey

Heavy erosion

Pool, 30'W, 4'D

Station #1
41'W
.92'D

Picture #7

Log, partially obstructs.

Gravel

50'W

ITZ

Island

Pilings

- 163 -

101-55-87

Smeaton Bay

N

A hand-drawn sketch map of Smeaton Bay. The coastline is irregular, with a prominent point on the left side labeled '101-55-87'. The interior of the bay is filled with small dots. A north arrow, consisting of a vertical line with 'N' at the top and an arrowhead at the bottom, is located to the right of the bay. The text 'Smeaton Bay' is written below the coastline.

Name Skull Creek Catalog No. 101-55-87
Latitude N 55° 17' 03" WR No. _____
Longitude W 130° 49' 08" K No. _____
Geodetic Map No. Ketchikan B-3 Work Area Ketchikan
Location So. side Smeaton B. 1.5 m. E Carp Is. Watershed Length 1.5 miles
Drainage Area of Watershed 7.5 sq. miles
Water Supply Type Fed by precipitation and groundwater.

Trails & Survey Routes Game trails provide a good survey route for most of this stream. Some sections are better suited for streambed route.

Aerial Survey Notes This stream would be suitable for aerial survey.

Anchorage Good anchorage behind Carp Island. Hard bottom provides safe anchorage close in at 5 fathoms.

Tide Stage When Surveyed 1st half of flood

FISHERY RESOURCES

Commercial Fisheries Pink, coho, chum

Escapement Unknown - no historical data on record. Spawning area: 5574 m²
(3000'L x 50'W x 40% ASA)

Species Composition Pink, coho, chum

Timing Late - September, October

Schooling areas Bay provides excellent schooling areas.

Shellfish Potential Dungeness crab are known to be in area. Also fair concentration of clams in the bay.

Sport Fisheries Pink, coho, chum, Dolly Varden and Cutthroat

Land Use at Present None, other than recreation

History of Land Use Handlogging. Stream appears to have had a fish trap at the mouth.

Rehabilitation Potential Stream is relatively clear of obstructions. Some minor log jams exist but these could be easily cleared.

Soils Some heavy erosion along some sections of the stream caused by windfall.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	1
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ----	Number seen on tide flats	4
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	1
Bald Eagles-	Number seen along creek	1
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	600 yds.
	Estimate depth out from beach	100 yds
	Eel grass present on what percent of flats	5%

STREAM INVENTORY FORM

Name: Skull Creek

Number: 101-55-87

Observers: Ward - Jones

Date: 6-25-75

Temperature: 60°

Weather: Overcast

Station No.

1

Pool Size/Type

1/1

Riffle Type
Width-Depth

41'W
.92'D

Pool Riffle
Frequency

3

Bottom Type
(Riffle)

4/6

Color/Turbidity

1/1

Velocity

Flow (C.F.S.)

41.9

Temp. (°F.)

44°

pH

5

Fry Abundance

Benthos
Sample No.

Higher Plant
Class

2

Aquatic Veg.
Density
Ident.

1

(1) Mosses
(2) Algae

1

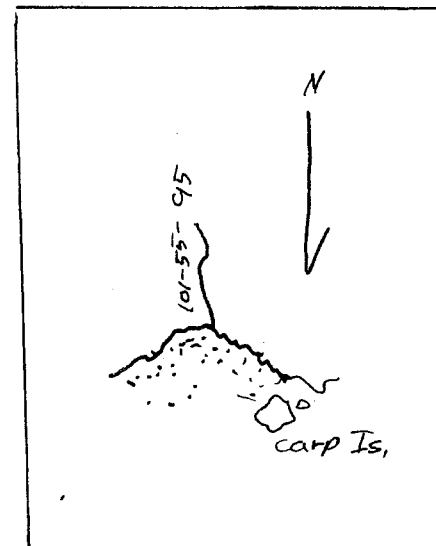
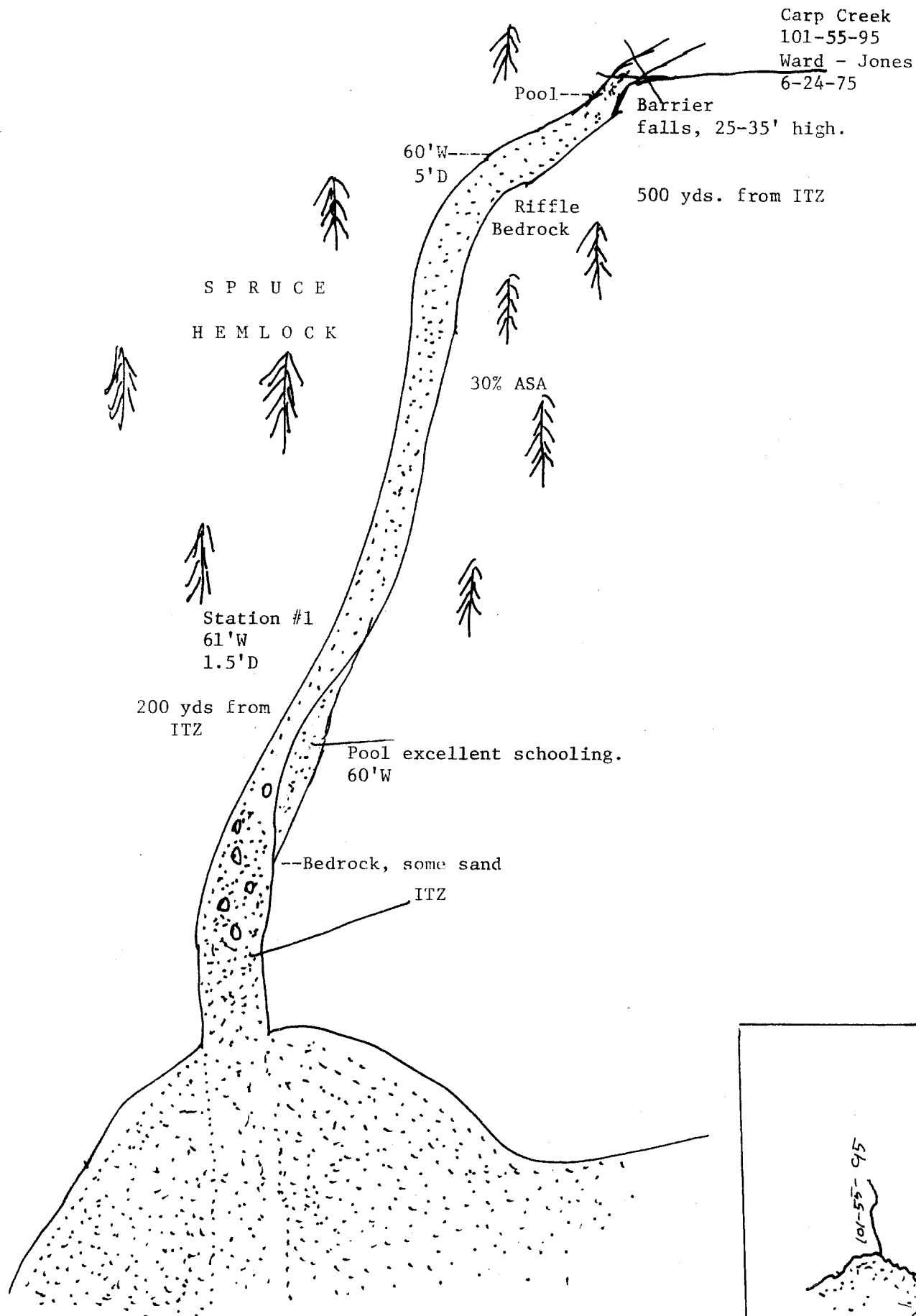
General Remarks (rehab., land use, barriers, log jams, etc.):

PEAK ESCAPEMENT RECORD

Skull Creek
101-55-87

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
9-29-40	15,000			Fair. 1000 chum 9-13. 3000 off mouth.
9-21-42	3,000	300		Excellent.
9-18-43	15,000			Fair. 4000 off mouth.
9-17-47	700		10 coho	Good
8-10-48				No fish in stream.
8-26-49	50			
9-18-50	520	1	80 coho	100 off mouth.
9-14-51	1,800			Many fish in bay.
7-24-57	600			
9-4-63				Bedrock, rock and gravel.
8-21-73	500			1000 @ mouth, vis. fair.
9-6-74	350			300 Pinks @ mouth. Water dark.

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Name Carp Creek Catalog No. 101-55-95
Latitude N 54° 15' 05" WR No. 25
Longitude W 130° 52' 07" K No. 30
Geodetic Map No. Ketchikan B-3 Work Area Ketchikan
Location Smeaton Bay - off Carp Island Watershed Length 3.5 miles
Drainage Area of Watershed 5 sq. miles
Water Supply Type Ground water and precipitation fed partly by a lake which lies to the southeast.
Trails & Survey Routes Possible to survey some sections by walking game trails, otherwise survey by walking stream bed.
Aerial Survey Notes Aerial survey is possible. There is no canopy covering and water is light brown.
Anchorage Good anchorage between Carp Island and mainland shore. Hard bottom close shelter to 5 fathoms.
Tide Stage When Surveyed 1st half of ebb

FISHERY RESOURCES

Commercial Fisheries Pink, coho, chum
Escapement 1957 - 1000 pink, 1000 chum. Spawning area: 2508 m² (1500' x 60' x 30% ASA)
Species Composition Pink, coho, chum, Dolly Varden, possibly cutthroat
Timing Late - September, October.
Schooling areas Possible schooling areas off east (left) side of creek in ITZ and 75 yds upstream in pool area.
Shellfish Potential Possibly dungeness crab. However, none were sampled.
Sport Fisheries Pink, coho, chum, Dolly Varden, possible cutthroat
Land Use at Present None other than some recreation.
History of Land Use Handlogging.
Rehabilitation Potential Possible construction of a fish ladder to open the upper stream and lake to salmon and trout.
Soils Fairly stable.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	3
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	2
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	100 yds.
	Estimate depth out from beach	40 ft.
	Eel grass present on what percent of flats	2%

STREAM INVENTORY FORM

Name: Carp Creek

Number: 101-55-95

Observers: Ward - Jones

Date: 6-24-75

Temperature: 54°

Weather: Overcast

Station No.

1

Pool Size/Type

2/1

Riffle Type

61'W

Width-Depth

1.5'D

Pool Riffle

Frequency

1

Bottom Type

(Riffle)

4/6

Color/Turbidity

1/1

Velocity

2

Flow (C.F.S.)

82.7

Temp. (°F.)

51°

pH

5

Fry Abundance

Benthos

Sample No.

Higher Plant

Class

2

Aquatic Veg.

Density

3

Ident.

(1) Mosses

(2) Algae

1 - green

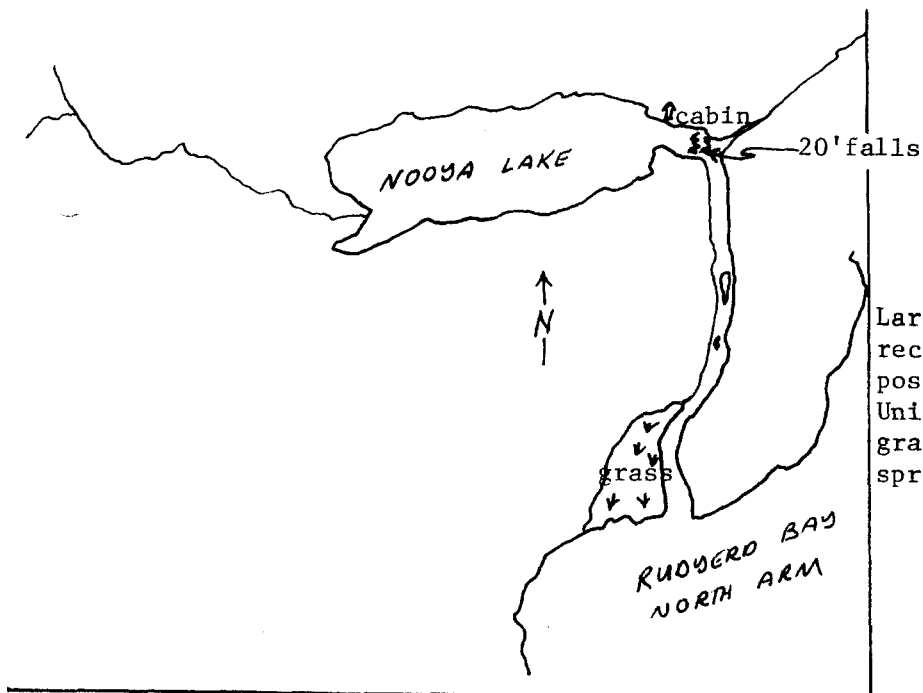
General Remarks (rehab., land use, barriers, log jams, etc.):

PEAK ESCAPEMENT RECORD

Carp Creek
101-55-95

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
9-13-40	1,000			Fair. 2000 off mouth.
9-18-43	3,000			Fair. 5000 off mouth.
9-17-47	60	1		
8-10-48	200			
8-26-49				No fish, low water.
9-14-51	60			Some off mouth.
7-24-57	1,000	1,000		Fair.
8-26-61				None observed.
9-4-63				Barrier falls $\frac{1}{4}$ mile.
8-12-75				1900 @ mouth.

-170 -



Nooya Creek

101-60-09

7-30-75

Downey, R. Larson

Larger type stream. Possibly up some from recent rain. Lower 200 yds. swift and composed of larger gravel and boulders (6-10"). Unidentified fry seen throughout. Flat gradient to the point walked with excellent spruce.

15% Available spawning area to the point surveyed.

Stopped 1/4 mi. above treeline. Just too brushy to walk. Choked with a tangle of brush to stream banks and stream somewhat swift to walk in.

Excellent man-made trail to Nooya Lake (1 mile).

← Less water here, but less velocity and looks like better spawning here.

Gravel doesn't look too bad, somewhat large (6-8"). Major problem for spawners is velocity. Spawning restricted to the stream edges.

Debris and split channel area. Couple good pools. Several unidentified fry.

Lone tree on small island

3-4 logs across stream - no block

Intertidal area composed mostly of larger boulders (6-10") with some sand. A good riffle in the upper I.T.Z.

Name Nooya Creek Catalog No. 101-60-09
Latitude N 55° 36' 08" WR No. 38
Longitude W 130° 42' 05" K No. 42
Geodetic Map No. Ketchikan C-3 Work Area Ketchikan
Location Rudyard B. no. arm w shore 1 mile Watershed Length 10.5 miles (tribut. include)
Drainage Area of Watershed 11.3 sq. miles.
Water Supply Type Large lake, melting snow and precipitation

Trails & Survey Routes Trail to lake along left hand side of creekbed is difficult to walk at high water, should be easy at low water. Banks very brushy.
Aerial Survey Notes Good for stream this small. Mid-day and afternoon best light, low water preferable.
Anchorage Delta extends between point of land on either side. Better anchorage on opposite shore at mouth of small creek.
Tide Stage When Surveyed 1/2 flood

FISHERY RESOURCES

Commercial Fisheries Pink, chum, coho

Escapement High historic - 1946 - 25,000. 1973-74 - 11,000. Spawning area = 1962 m². (1320'L x 40'W x 25% ASA) 1st 1/4 mile surveyed.

Species Composition 70% pinks, 25% chum, 5% coho

Timing Middle - Late

Schooling areas Off intertidal delta on left hand side of stream channel.

Shellfish Potential Some clams, may have a few crabs. Potential low.

Sport Fisheries Dolly Varden in lake.

Land Use at Present Recreational fishing in lake and goat hunting.

History of Land Use Unknown

Rehabilitation Potential Has approx. 20' barrier falls close to outlet of lake. Could be investigated, frogs 200 feet in 2 miles.

Soils Bedrock extensive in upper creek outlet to lake. Stream banks steep and timber covered, lower stream flattens out with low banks. Entire area stable.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	1
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles--	Number seen along creek	1
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	4
Tide flats -	Estimate length along beach	300 yds
	Estimate depth out from beach	100 yds
	Eel grass present on what percent of flats	0

STREAM INVENTORY FORM

Name: Nooya Creek

Number: 101-60-09

Observers: Downey - R.Larson

Date: 7-30-75

Temperature: 53°

Weather: Overcast - rain

Station No.

1

Pool Size/Type

3/2

Riffle Type

50'W

Width-Depth

1.5'D

Pool Riffle

Frequency

3

Bottom Type

(Riffle)

4

Color/Turbidity

1/1

Velocity

2

Flow (C.F.S.)

251.3

Temp. (°F.)

50°

pH

4

Fry Abundance

several

Benthos

Sample No.

Higher Plant

Class

1

Aquatic Veg.

Density

2

Ident.

(1) Mosses

(2) Algae

2

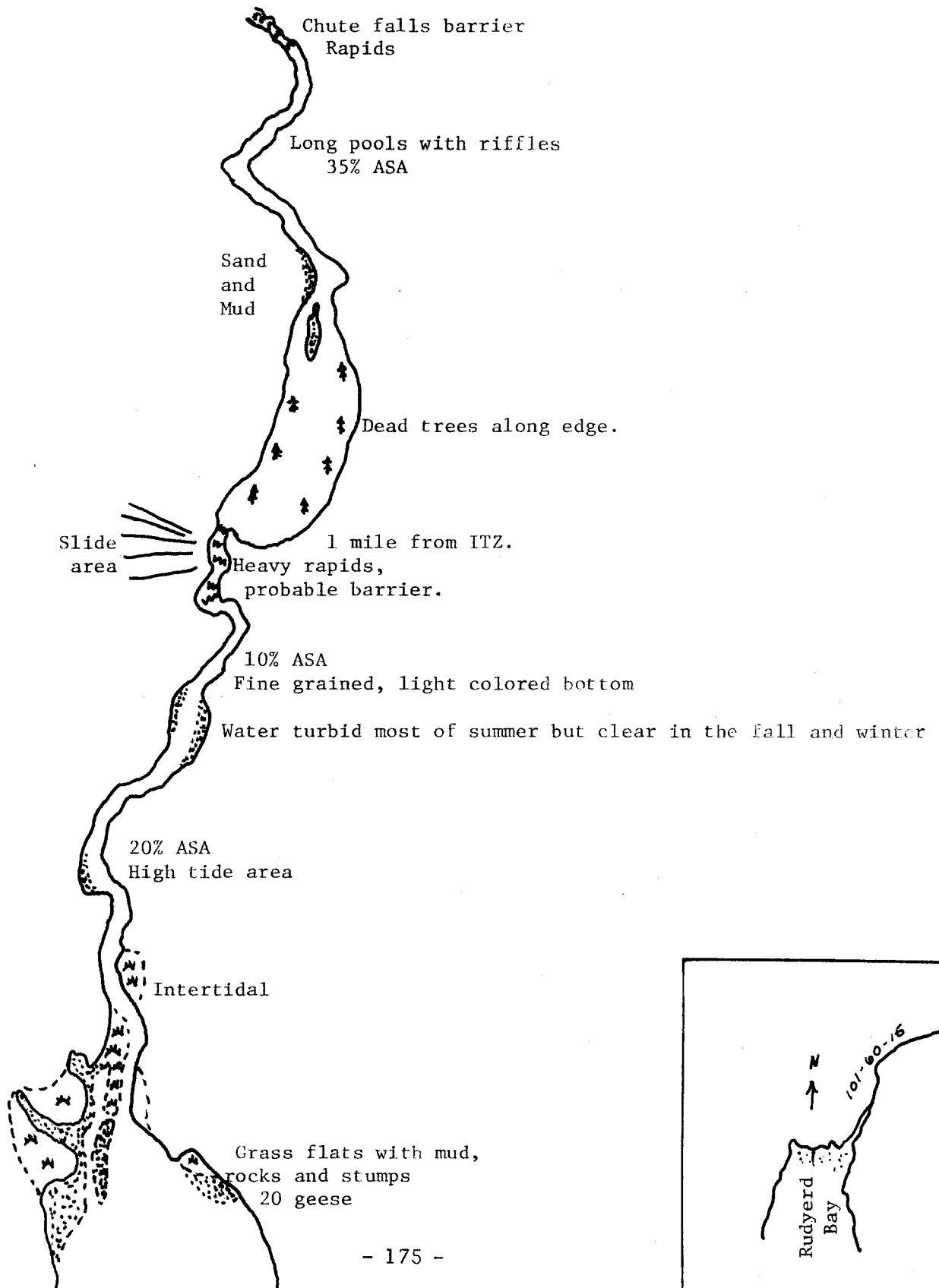
General Remarks (rehab., land use, barriers, log jams, etc.): Riverbed generally flat and the water is swift, few pools in lower section (1/4 mile).

PEAK ESCAPEMENT RECORD

Nooya
101-60-09

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
9-20-40	300	100		Poor.
9-17-43	15,000	5,000		Excellent. 5000 off mouth.
10-12-46				Poor.
9-24-47		6,000		Fair, few pinks.
8-27-48				Fair.
8-7-53	5	1		Poor.
8-23-54	4,000			Few still off mouth.
9-14-56	2,500	400		50 pink @ mouth.
8-7-57	600	120		
8-5-60	8,000			
8-24-61	3,000			Reported by sport fisherman.
8-25-62	6,000			2000 dead. Visibility fair.
8-8-63	650			200 @ mouth. Good Vis. 150 I.T.
9-1-64	900	300		Most spawning.
8-3-65				Visibility excellent.
9-7-66	250			Stream high. Few dead at mouth.
9-4-67	30	10		Visibility excellent.
8-19-68	3,100			Few 100 dead.
8-29-69	50			Stream high. Vis. fair to poor.
7-27-70	1,000			Visibility poor.
8-12-71				None observed. Vis. fair.
7-31-72	800			Visibility fair. 200 @ mouth.
8-17-73	11,000			Visibility good.
8-15-74	11,000			Visibility good.
8-18-75	13,000			2 schools @ mouth. 3000 @ I.T. Visibility excellent.

Rudyerd River
101-60-15
7-30-75
Downey, Ward



Name Rudyerd River Catalog No. 101-60-15
 Latitude N 55° 39' 04" WR No. 36
 Longitude W 130° 38' 07" K No. 41
 Geodetic Map No. Ketchikan C-2 Work Area Ketchikan
 Location Rudyerd Bay, N. Arm head Watershed Length 142 miles
 Drainage Area of Watershed 84.5 sq. miles
 Water Supply Type Precipitation, melting snow.

Trails & Survey Routes Large river and difficult to survey by foot because of long distances and brushy banks.

Aerial Survey Notes Can be adequately surveyed by air but only during low water. Snow water runoff makes the water turbid at times.

Anchorage Off extensive intertidal delta.

Tide Stage When Surveyed 2/3 flood

FISHERY RESOURCES

Commercial Fisheries Pink, chum, coho and king

Escapement 1949 - 13,000 pinks, 13,000 chum, 2100 coho, 1950 - 21,000 pink, 13,000 chum, 1000 coho. Since 1961 - 3600 ave. 74- 30,000. Spawning area = 7316 m². (2500'x90'x15%) + (1500'x75'x40% ASA)

Species Composition: Very variable, mostly pinks. No kings reported recently 38 in '54.

Timing Usually middle but early peaks not uncommon for pinks.

Schooling areas

Shellfish Potential Dungeness crab and tanner crab in bay.

Sport Fisheries Dolly Varden and cutthroat in streams. Lake in headwaters was stocked with rainbows and now offer excellent angling.

Land Use at Present None

History of Land Use Unknown

Rehabilitation Potential The slide has created a block reducing the streams spawning area by half.

Soils Unstable.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	-
	Number of droppings	1
Geese -----	Number seen on tide flats	18
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	3
Tide flats -	Estimate length along beach	1/2 mile
	Estimate depth out from beach	1/4 mile
	Eel grass present on what percent of flats	-

STREAM INVENTORY FORM

Name: Rudyard River
Number: 101-60-15

Observers: Downey, Ward
Date: 7-30-75
Temperature: 54°
Weather: Overcast - rain

Station No.	1																		
Pool Size/Type	2/1																		
Riffle Type	100'W																		
Width - Depth	3-4'D																		
Pool Riffle Frequency	3																		
Bottom Type (Riffle)	4																		
Color/Turbidity	2/2																		
Velocity	2																		
Flow (C.F.S.)																			
Temp. (°F.)	45°																		
pH	4																		
Fry Abundance																			
Benthos Sample No.																			
Higher Plant Class	2																		
Aquatic Veg. Density	2																		
Ident.																			
(1) Mosses																			
(2) Algae	2																		

General Remarks (rehab., land use, barriers, log jams, etc.):

Taken at above normal flow (4-6"). Carries more than normal silt load - silt on all rocks in lower river - muddy flats. Big river - can't wade. Approx. 120'. Depth 3-4 feet

PEAK ESCAPEMENT RECORD

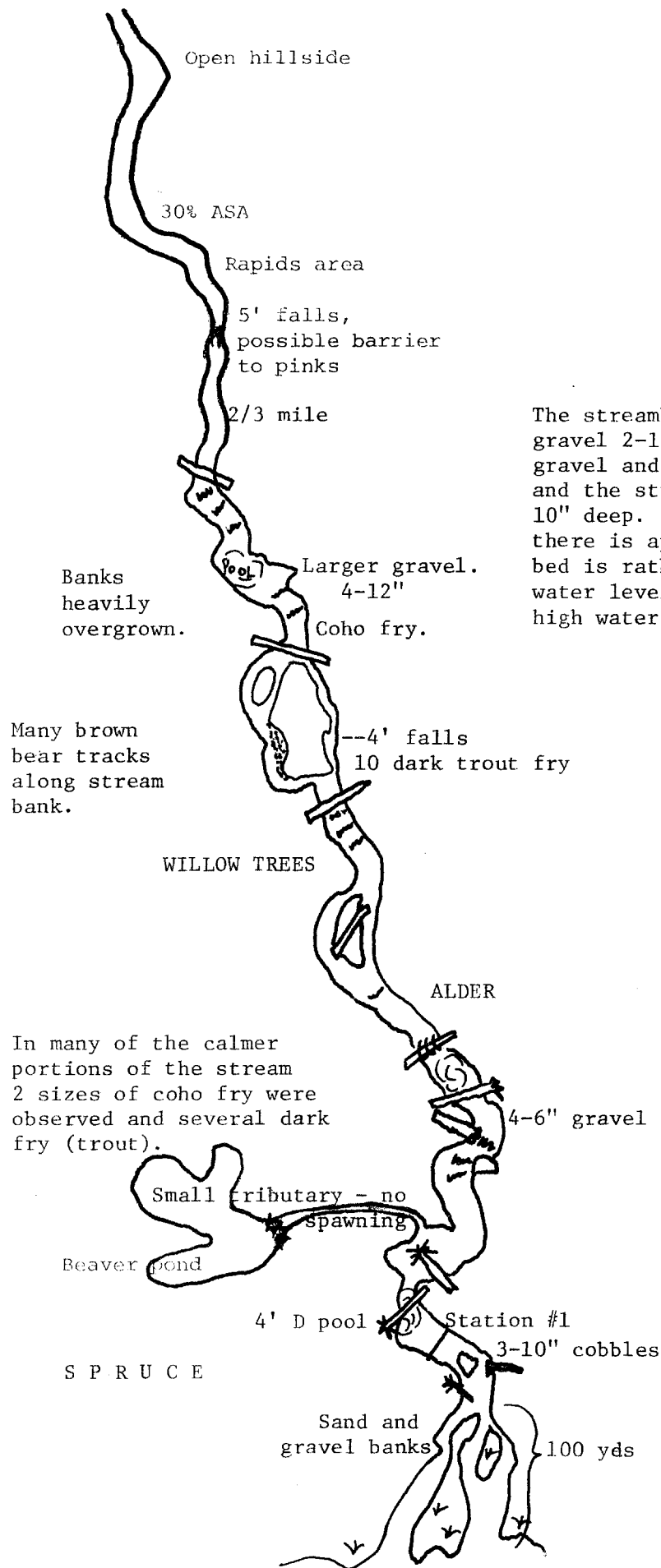
Rudyard River
101-60-15

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
10-1-37				7-15 only few king present. Fair. few pink, many brite chum.
9-13-39	1,500			No signs of earlier spawning.
9-20-40				Poor pink showing. High, muddy water.
9-25-41				Poor. High muddy water.
9-17-43	10,000	2,000		Poor.
9-25-47		6,000		Fair.
9-2-49	12,000	6,000		13,550 chum 9-27. 2,100 coho 9-27. 500 dead pink.
9-19-50	31,200	1,100		13,000 chum, 1000 coho, several kings on 9-12. 1700 dead pinks.
9-1-51	29,600	715	50 coho, 9 king	No fish at mouth. 3700 dead pink.
8-24-52	14,150	100	1 red 38 kings on 9-3	1,300 dead pink.
8-9-53	1,250	260	15 kings	
8-12-54	9,500			Few chum.
8-3-55	4,000			
8-13-56	27,000			Few dead, some pinks at mouth.
8-19-57	300			14,000 live chum, -1000 dead 9-24.
8-9-60	6,000			
8-21-61	150			All schooled.
8-3-62	7,600			Fresh fish.
7-14-63	100			100 I.T. Poor vis. Turb air and glacial water.
7-30-64				River high. Vis. poor. 200 @mouth.
8-3-65		6		Visibility excellent.
8-21-67		50		Visibility fair.
8-27-68	5,000	250		A few carcasses throughout river.

PEAK ESCAPEMENT RECORD

Rudyerd River
101-60-15

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
8-20-69				Vis. fair, stream flow very high.
8-18-70	1,300			Vis. good.
8-12-71				None observed. Vis. good.
8-9-72	900			Vis. good.
8-17-73	800			Vis. good.
8-7-74	23,400			7000 @ mouth., 250 @ I.T. Low water, carcasses. Vis. good.
8-18-75	1,000		2 kings	Vis. excellent.
				- 179 -

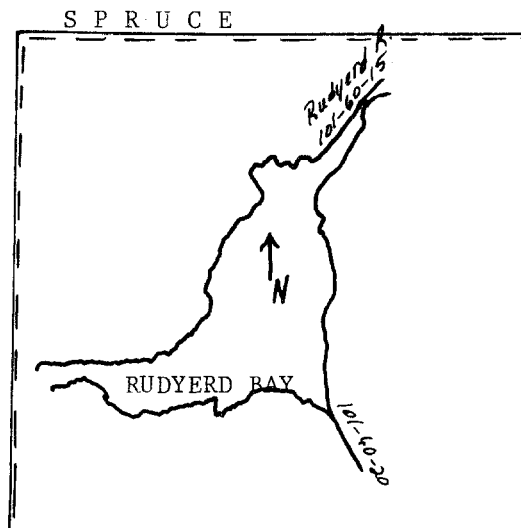


Sandpiper Creek
101-60-20
7-31-75
R. Larson

The streambed is composed of round smooth gravel 2-12", interspaced with smaller gravel and sand. The gradient is slight and the streambed averages 15' wide and 10" deep. The water is crystal clear and there is approximately 75% ASA. Streambed is rather easy to walk at normal water levels but extremely difficult at high water.

Many brown
bear tracks
along stream
bank.

In many of the calmer
portions of the stream
2 sizes of coho fry were
observed and several dark
fry (trout).



Name Sandpiper Creek Catalog No. 101-60-20
 Latitude N 55° 38' 16" WR No. 36A
 Longitude W 130° 38' 46" K No. 41A
 Geodetic Map No. Ketchikan C-2 Work Area Ketchikan
 Location Rudyard Bay, S. Shore at head of N. Arm Watershed Length 4 miles
 Drainage Area of Watershed 7.5 sq. miles
 Water Supply Type Lake, groundwater, precipitation, runoff from melting snow.

Trails & Survey Routes Stream bed easily walked at normal water levels

Aerial Survey Notes Generally shallow with a light colored bottom. Should get excellent counts.

Anchorage in mouth of creek.

Tide Stage When Surveyed 1/2 flood.

FISHERY RESOURCES

Commercial Fisheries Pink and chum reported, many coho fry seen. Spawning areas limited to first .5 mile of stream gravel then begins to disappear and gradient
 Escapement 1800 peak count 1968. Spawning area - 3368 m² increases at .7 miles
(1000'L x 25'W x 75% ASA) + (2000'x25'x35% ASA)
 Species Composition Major species pink - also chum and coho

Timing Middle - August, September.

Schooling areas Off mouth

Shellfish Potential Dungeness crabs on delta.

Sport Fisheries Unknown

Land Use at Present None

History of Land Use Unknown

Rehabilitation Potential None warranted to increase fish production.

Soils Steep slopes bordering stream. Bottom generally stable with some braiding at high water exposing glacial till.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	-
	Number of droppings	2
Geese -----	Number seen on tide flats	-
	Number seen up creek	-
	Number of broods seen	-
Mallards ---	Number seen on tide flats	-
	Number seen up creek	-
	Number of broods seen	-
Mergansers -	Number of broods seen	-
Bald Eagles-	Number seen along creek	-
	Number of nests seen and location	-
Seals -----	Number seen at mouth of stream	-
Tide flats -	Estimate length along beach	-
	Estimate depth out from beach	-
	Eel grass present on what percent of flats	-

STREAM INVENTORY FORM

Name: Sandpiper Creek

Number: 101-60-20

Observers: Downey, Ward, R. Larson

Date: 7-30-75

Temperature: 52°

Weather: Overcast - rain

Station No.

1

Pool Size/Type

1/2

Riffle Type
Width-Depth

51'W
1'D

Pool Riffle
Frequency

3

Bottom Type
(Riffle)

4

Color/Turbidity

1/1

Velocity

2

Flow (C.F.S.)

96.8

Temp. (°F.)

48°

pH

4

Fry Abundance

many coho
15 trout

Benthos
Sample No.

Higher Plant
Class

1

Aquatic Veg.
Density
Ident.

3

(1) Mosses
(2) Algae

2

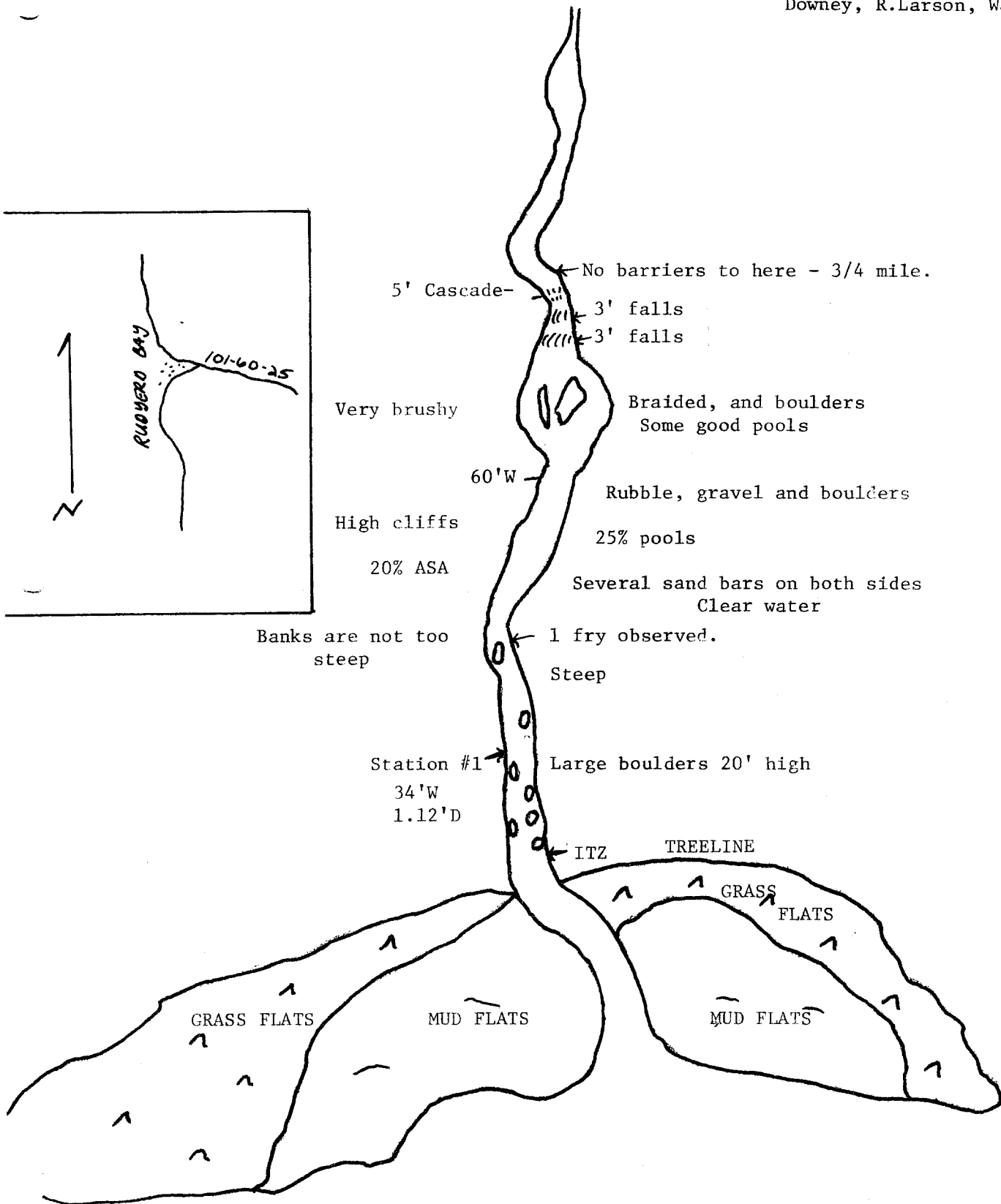
General Remarks (rehab., land use, barriers, log jams, etc.): Stream station taken at possible above normal flow.

PEAK ESCAPEMENT RECORD

Sandpiper Creek
101-60-20

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
9-12-49	370	74		5 dead chum
7-18-53				2 jumps noted.
8-8-63		4		
8-18-64	830	40		Pink & chum spawning but fresh.
8-16-65				Visibility good.
8-21-67	few			Fair visibility.
8-27-68	1,800	few		50 @ mouth. Appears to be new fish.
7-20-70				None observed. Visibility poor.
7-31-72	800			Visibility good. 200 @ mouth,
8-7-74	600			150 pink @ I.T. Vis. good.
8-22-75	3,000			
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Boulder Creek
 101-60-25
 7-30-75
 Downey, R.Larson, Ward



Name Boulder Creek Catalog No. 101-60-25
Latitude N 55° 36' 05' WR No. 38A
Longitude W 130° 41' 02" K No. 40
Geodetic Map No. Ketchikan C-3 Work Area Ketchikan
Location Rudyard B. E shore between N & S Watershed Length 2.2 miles
Drainage Area of Watershed 4.2 sq. miles
Water Supply Type Precipitation and early snow fields.

Trails & Survey Routes Difficult walking in streambed.

Aerial Survey Notes This stream could be surveyed by helicopter but fixed wing craft would have difficulty maneuvering in narrow valley.

Anchorage 1st half of ebb.

Tide Stage When Surveyed _____

FISHERY RESOURCES

Commercial Fisheries Pink

Escapement 1974 - 20,000; 1973 - 300; 1972 - 3,000

Spawning area - 3679m² (3960'L x 50'W x 20% ASA)

Species Composition Unknown

Timing Middle - August, September.

Schooling areas The ITZ and cove are frequently observed with large schools of pink salmon. However, these observed salmon are possibly migrating to other streams in Rud-

Shellfish Potential Dungeness and tanner crab off mouth. yerd Bay.

Sport Fisheries Cutthroat, Dolly Varden

Land Use at Present None

History of Land Use Unknown

Rehabilitation Potential No rehab. needed to increase fish spawning areas.

Soils Soils appear to be generally stable. Windfall along stream could lead to some erosion of stream banks.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles--	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	1
Tide flats -	Estimate length along beach	150 yds
	Estimate depth out from beach	50 yds
	Eel grass present on what percent of flats	2%

Number: 101-60-25

Weather: Overcast - rain

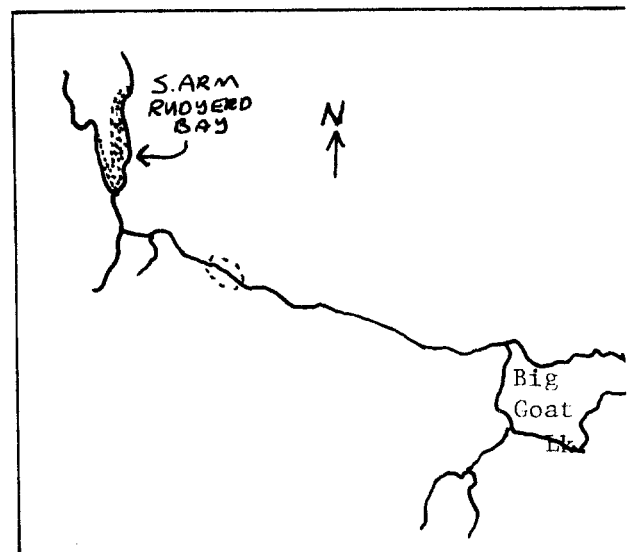
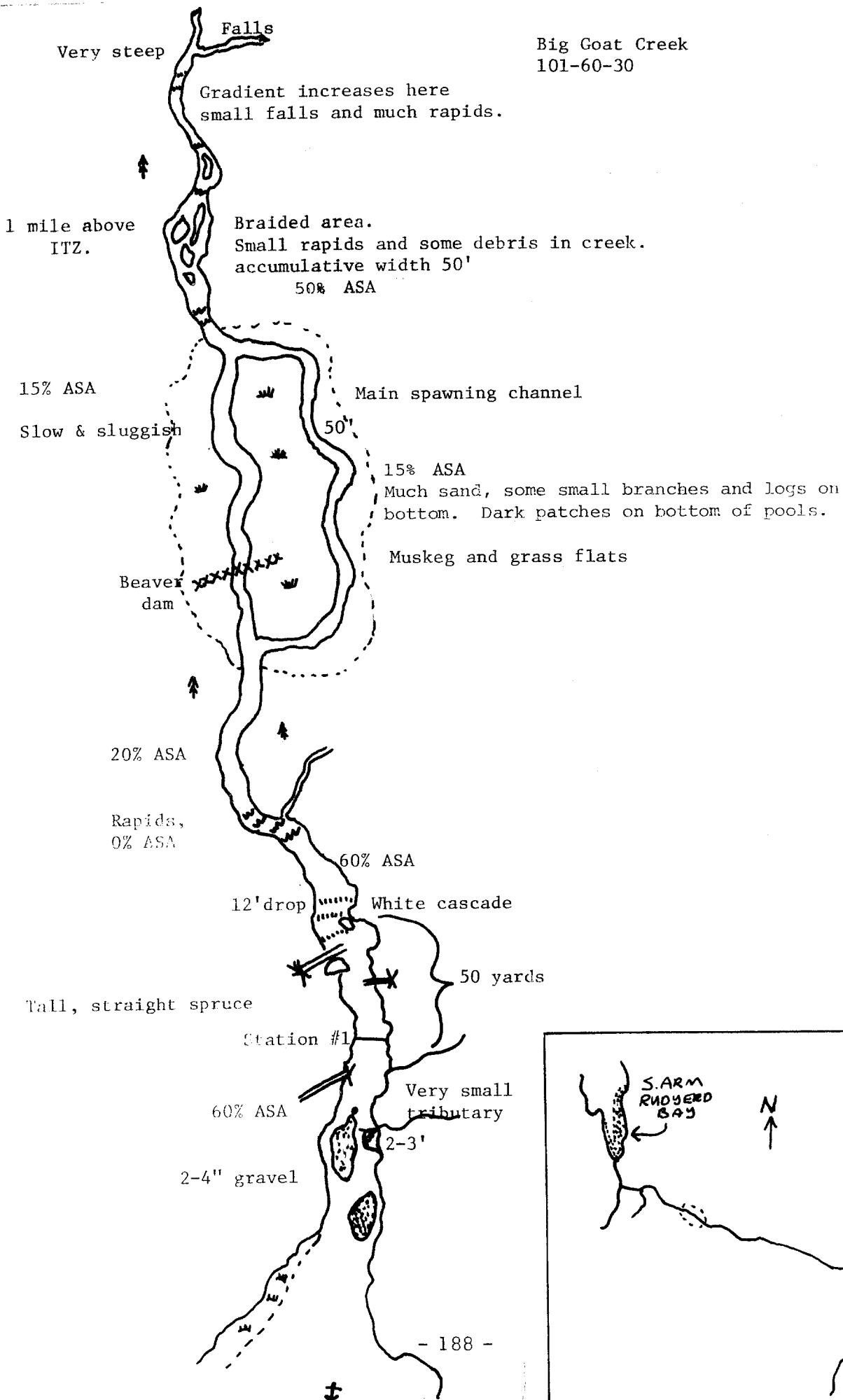
General Remarks (rehab., land use, barriers, log jams, etc.):

PEAK ESCAPEMENT RECORD

Boulder Creek
101-60-25

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
9-14-39				Few pink, few fish off mouth.
9-26-41	1,000			Poor.
9-17-43	5,000			Poor.
8-12-53				Few at mouth. 17 pinks 8-7.
7-29-56	8,000			
8-25-62				Good visibility.
7-1-63				20 @ I.T.
8-18-64	380			Vis. good. All schooled.
8-16-65				Vis. good.
8-27-68	500			Many carcasses in lower portion stream and I.T. area.
7-20-70				Few finning schools. Vis. poor.
8-11-71				None observed.
7-24-72				3000 @ mouth. Vis. fair.
8-10-73				300 pinks @ mouth.
7-31-74				800 pinks @ mouth.

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Name Big Goat Creek Catalog No. 101-60-30
Latitude N 55° 32' 08" WR No. 37
Longitude W 130° 40' 05" K No. 39
Geodetic Map No. Ketchikan C-2, C-3 Work Area Ketchikan
Location Rudyard Bay, So Arm Head Watershed Length 7 miles (Big & Little Go.
Drainage Area of Watershed 18 sq. miles.
Water Supply Type Two lakes, precipitation, melting snow.

Trails & Survey Routes Grass flats easily walked. Was a trail to old weir site below rapids. Stream easily walked on normal or lower stream levels. Banks brushy.
Aerial Survey Notes Good stream, morning or mid-day best. Clear water and light bottom. Lower stream may be obscured by trees.
Anchorage Good at head of bay. 4-6 fathoms. Opposite delta of rocky creek on right side of bay.
Tide Stage When Surveyed 1/2 flood.

FISHERY RESOURCES

Commercial Fisheries Most spawning occurs above 1st falls. Good spawning area below falls. Pinks, coho, chum and king salmon present.
Escapement high historic: 47,000 mixed sp. 1974. Spawning area = 9425 m². Below fal (600'x70'x60%ASA) (above falls) (500'x50'x60% ASA) + (2500'x50'x25%ASA)
Species Composition 90% pinks 9% chums 1% coho
Based on 1954 weir count (24,232) (2,697) (203) plus 67 king salmon.
Timing Pinks - early Aug., chum - late Aug., coho - middle Sept.
Schooling areas Small pool top of intertidal

Shellfish Potential Dungeness and tanner crab in the bay.

Sport Fisheries Excellent grayling fishing in lake. Trout in stream, should be steelhead here.

Land Use at Present Sport fishing in stream and lake. Goat hunting at Lake.

History of Land Use Was Fish & Wildlife Service weir below rapids 1953-54.

Rehabilitation Potential Was 67 king salmon reported in 1954. None reported recently.

Soils Valley floor flat with stable banks. Muskeg and beaver dam above 1st falls 1/2 mile from high tide. Stable now looks easily disturbed.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
	1 brown bear	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	1
Bald Eagles-	Number seen along creek	4
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	15
Tide flats -	Estimate length along beach	300 yards
	Estimate depth out from beach	200 yards
	Eel grass present on what percent of flats	0

STREAM INVENTORY FORM

Name: Big Goat Creek

Number: 101-60-30

Observers: Downey, Larson

Date: 7-30-75

Temperature: 53°

Weather: Rain

Station No.

Pool Size/Type

Riffle Type
Width-Depth

Pool Riffle
Frequency

Bottom Type
(Riffle)

Color/Turbidity

Velocity

Flow (C.F.S.)

Temp. (°F.)

pH

Fry Abundance

Benthos
Sample No.

Higher Plant
Class

Aquatic Veg.
Density

Ident.

(1) Mosses

(2) Algae

1															
3/1															
76'W 1.5'D															
3															
4															
1/1															
2															
453.8															
48°															
5															
8-15															
1															
3															
2															

General Remarks (rehab., land use, barriers, log jams, etc.):

Station #1. Water level up 4-6"

PEAK ESCAPEMENT RECORD

Big Goat Creek
101-60-30

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
8-17-33	1,500		1 king	Water high.
7-14-37	2,500			100 fish off mouth.
9-20-40	5,000	1,000		Poor.
9-26-41	7,000	250		Poor.
9-17-43	15,000	1,000		Good. 2000 off mouth.
8-27-49	15,000			Stream full.
9-12-50	200	>200		Several 100 off mouth. >2000 dead pinks.
8-19-51	3,200			Chum present. Few dead chum, pink.
8-27-53	3,306	2,001	11 coho, 9 kings	Weir count total. Steelhead reported 6-19.
9-15-55	24,232	2,697	203 coho, 67 king	Weir final total.
7-24-56	5,000	150		600 pink at mouth.
8-10-57	2,850	150		
8-9-60	10,000			
8-21-67	3,300			All schooled.
8-3-62	16,000			Scattered length of stream.
8-8-63	3,000	600		Ex. visibility. 50 I.T.
9-1-64	26,000	10,000		Few I.T.
8-26-65	3,000	800	1 king	Chum mostly spawning, pinks mostly schooled.
8-24-66	20,000	present	few king, coho	3100 @ I.T. Vis. fair. Many spawning & dead.
8-21-67	500	300		200 I.T., few @ mouth. Vis. fair.
8-27-68	19,000	1,000		Ex. vis. heavy spawning activity, many dead, many carcasses.
8-20-69	250			Ex. vis.
8-18-70	14,300			2000 I.T. Visibility fair.
-191 -				

PEAK ESCAPEMENT RECORD

Big Goat Creek
101-60-30

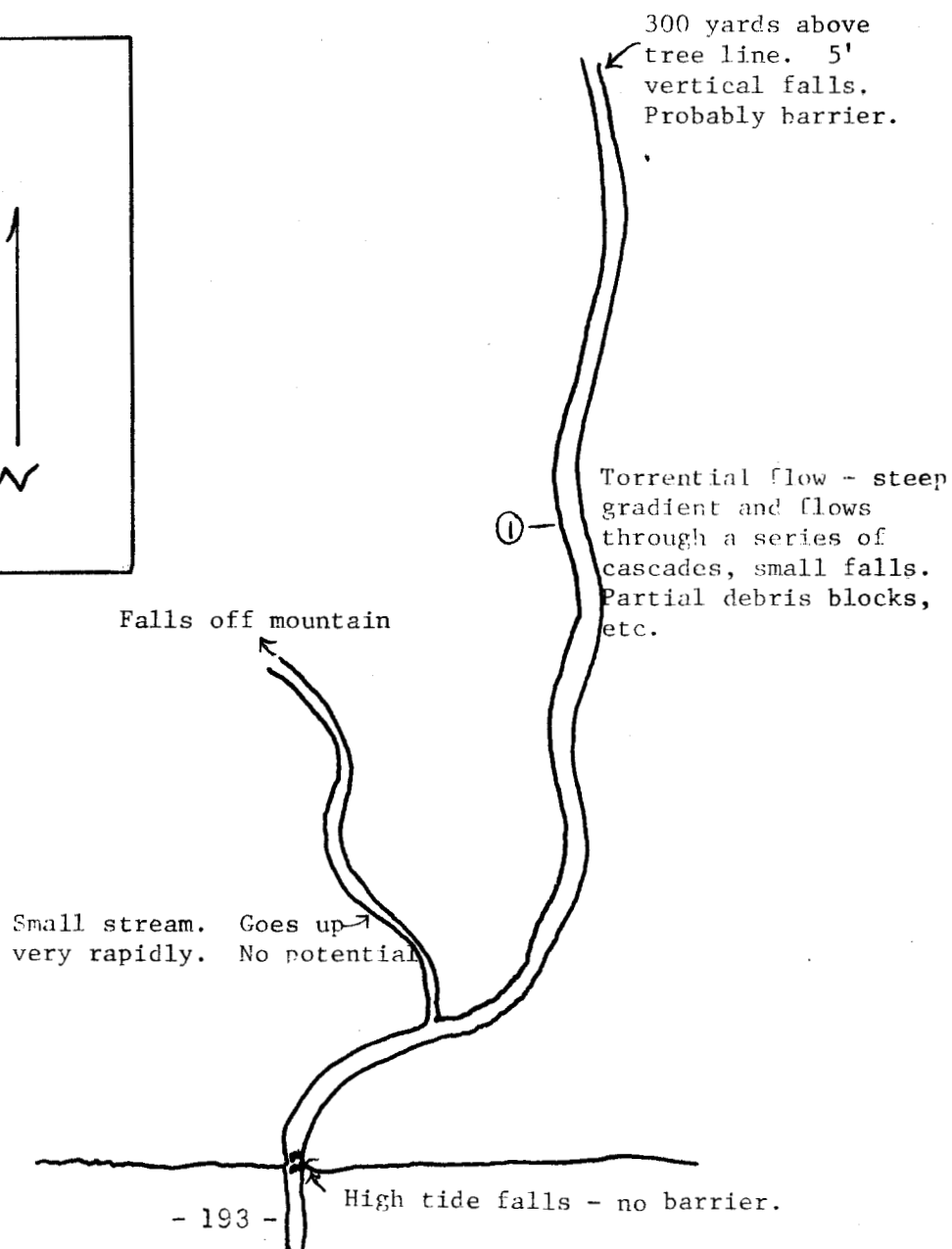
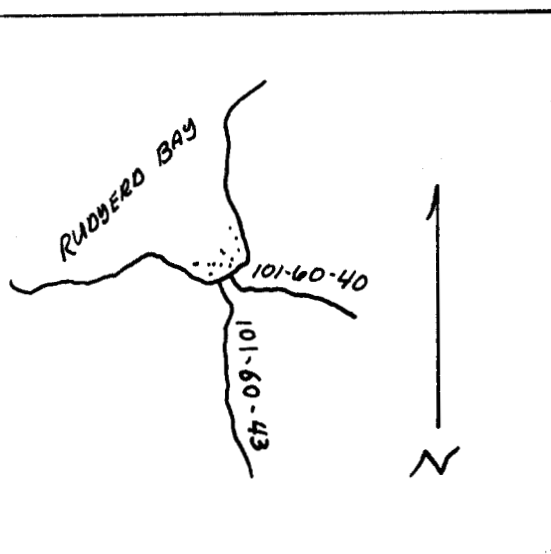
DATE	PINK	CHUM	OTHER SPECIES	REMARKS
8-12-71	800	600		Visibility fair.
8-9-72	5,600	4,000		Vis. good. 1000 carcasses.
8-17-73	6,300	10%		Visibility good.
8-15-74	37,000			10,000 in bay. Vis. good.
8-18-75	24,000	some		Vis. ex. 700 @ I.T., 15,000 @ mouth.

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Rudyerd Bay
101-60-43
7-30-75
Downey, R.Larson

Small stream, narrow - swift - steep. Very little potential. Saw no fry at all.

3-5% Available spawning area.



Name Rudyerd Bay Catalog No. 101-60-43
Latitude N 55° 34' 01" WR No. -
Longitude W 130° 45' 00" K No. -
Geodetic Map No. Ketchikan C-3 Work Area Ketchikan
Location Rudyerd Bay. Watershed Length 2.3 miles
Drainage Area of Watershed 4.1 sq. miles
Water Supply Type precipitation

Trails & Survey Routes Difficult walking stream because of steepness and larger boulder in streambed. Easier walking in timber on right side.

Aerial Survey Notes Too small and canopy dense at lower end

Anchorage Can anchor here but better in either Punchbowl or head of south arm.

Tide Stage When Surveyed High.

FISHERY RESOURCES

Commercial Fisheries Unknown. Probably a few pinks.

Escapement Unknown. Very little potential. Limited spawning and rearing potential.

Species Composition No fish reported or fry seen.

Timing Probably middle

Schooling areas None

Shellfish Potential None

Sport Fisheries None

Land Use at Present None

History of Land Use None

Rehabilitation Potential None

Soils Very rocky stream bed and banks - stable.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	0
	Estimate depth out from beach	0
	Eel grass present on what percent of flats	0

STREAM INVENTORY FORM

Observers: Downey, R. Larson

Name: Rudyard Bay

Date: 7-30-75

Number: 101-60-43

Temperature: 52°

Weather: Overcast - rain

Station No.

1

Pool Size/Type

3/3

Riffle Type
Width-Depth

10'W
1'D

Pool Riffle
Frequency

3

Bottom Type
(Riffle)

5

Color/Turbidity

1

Velocity

3

Flow (C.F.S.)

28.2

Temp. (°F.)

48°

pH

4.5

Fry Abundance

0

Benthos
Sample No.

Higher Plant
Class

2

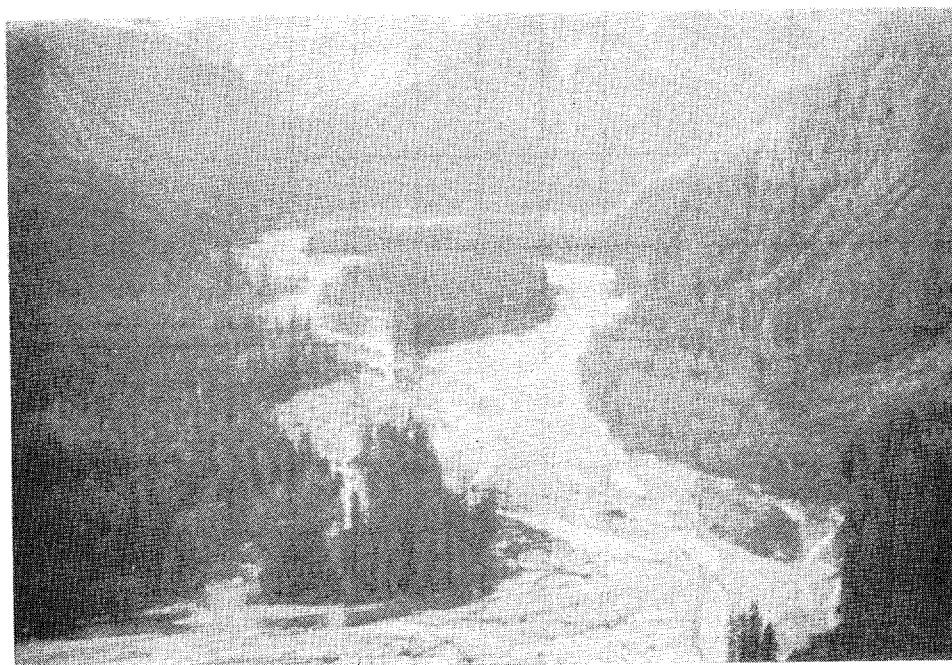
Aquatic Veg.
Density
Ident.

2

(1) Mosses
(2) Algae

1

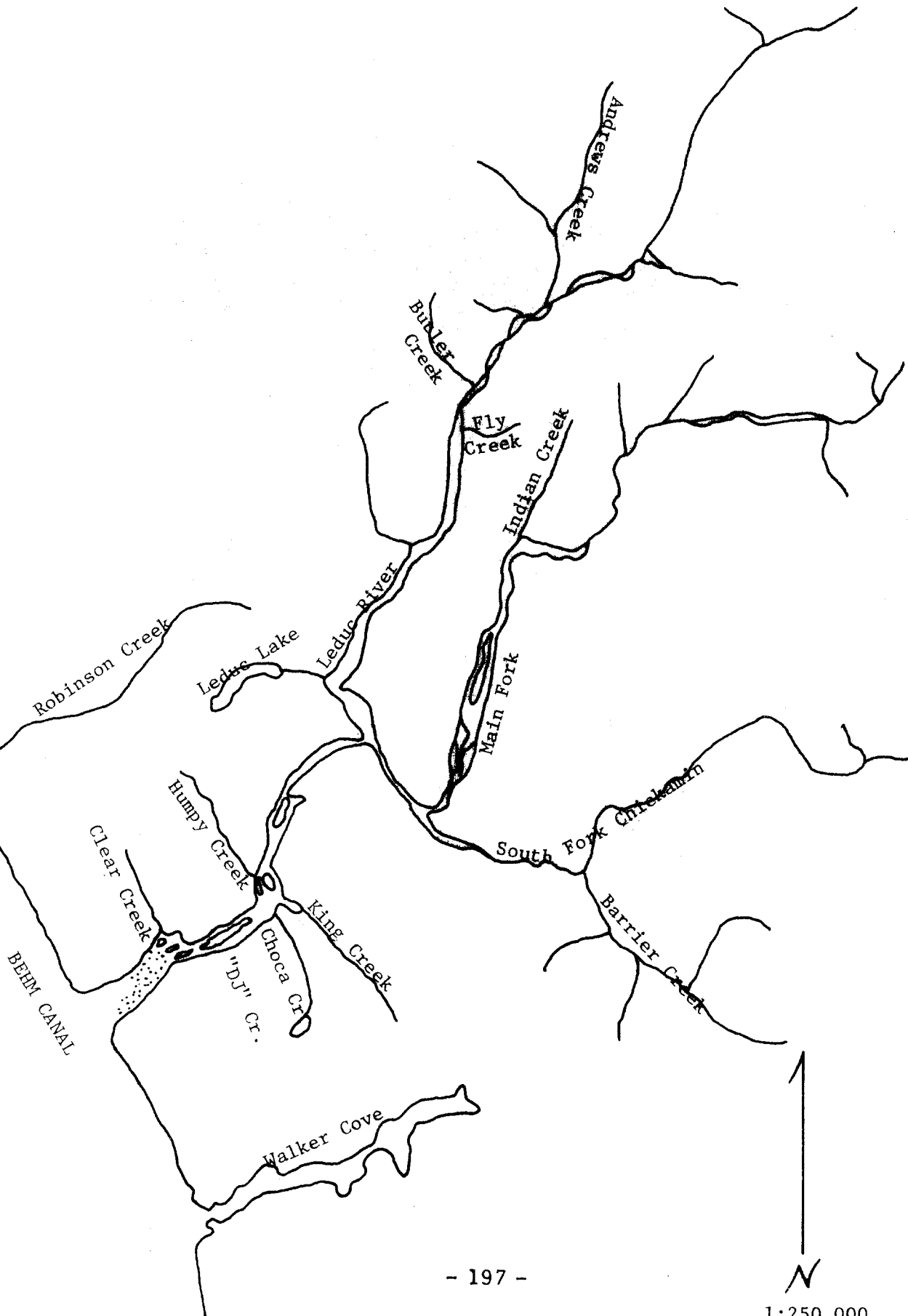
General Remarks (rehab., land use, barriers, log jams, etc.): Large boulders in streambed with many small waterfalls. Extremely limited spawning area (<5%). Subject to flooding - high water mark 2' above present stream level.



LeDuc River, upstream from junction
with Chickamin River.



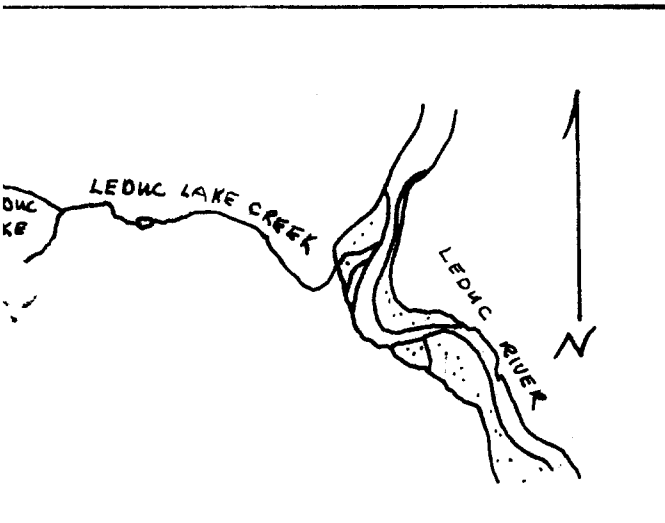
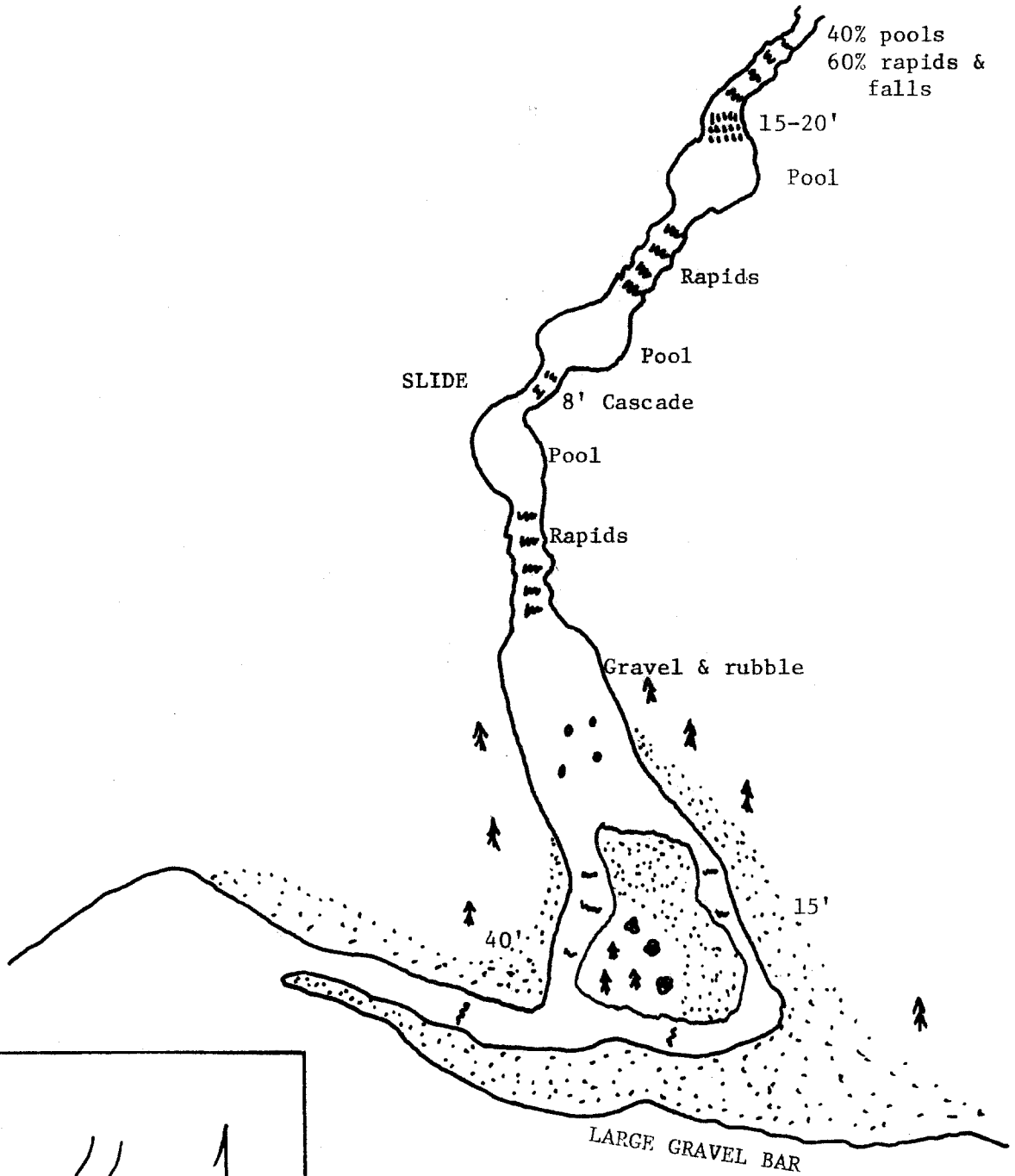
Chickamin River upstream from
junction with South fork of
Chickamin River.





LeDuc Lake Creek, Station #1
101-71-04B

Leduc Lake Creek
101-71-04B
10-28-75
R.Larson, D.Ward



Name Leduc Lake Creek Catalog No. 101-71-04B
Latitude N 55° 55' 50" WR No. _____
Longitude W 130° 48' 40" K No. _____
Geodetic Map No. Ketchikan D-3 Work Area Ketchikan
Location 2.5 mi upstrm. Leduc R. Watershed Length 9 miles
Drainage Area of Watershed 30 sq. miles
Water Supply Type Large lake fed by melting snow and precipitation.

Trails & Survey Routes Right bank is easily walked to barrier falls.

Aerial Survey Notes Clear water but some rubble in riffles makes close scrutiny necessary for good enumeration.

Anchorage Tributary of Leduc River.

Tide Stage When Surveyed _____

FISHERY RESOURCES

Commercial Fisheries King salmon. Probably pink, chum, and coho as well, but not surveyed except for kings.

Escapement Five year average 24 kings '69-75. High 85 kings 1972.
(400' x 78' x 60% ASA) Spawning area = 1739 m²

Species Composition Only surveyed for king salmon.

Timing Probably early.

Schooling areas Deep run below rapids and in pools below falls.

Shellfish Potential _____

Sport Fisheries Lake in drainage has good rainbow fishing possibly some Dolly Varden and rainbow in river below falls.

Land Use at Present Sports fishing in lake and goat hunting in area.

History of Land Use Mineral exploration throughout drainage.

Rehabilitation Potential Barrier falls a short distance above mouth of stream but limited spawning area above.

Soils Stable in lower section. Much evidence of slide in upper section.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	_____
	Number of droppings	_____
Geese -----	Number seen on tide flats	_____
	Number seen up creek	_____
	Number of broods seen	_____
Mallards ---	Number seen on tide flats	_____
	Number seen up creek	_____
	Number of broods seen	_____
Mergansers -	Number of broods seen	_____
Bald Eagles--	Number seen along creek	_____
	Number of nests seen and location	_____
Seals -----	Number seen at mouth of stream	_____
Tide flats -	Estimate length along beach	_____
	Estimate depth out from beach	_____
	Beel grass present on what percent of flats	_____

STREAM INVENTORY FORM

Name: Leduc Lake Creek

Number: 101-71-04B

Observers: R. Larson, D. Ward

Date: 10-28-75

Temperature: 39°

Weather: Overcast

Station No.

1

Pool Size/Type

2/1

Riffle Type
Width-Depth

78'W

Pool Riffle
Frequency

3

Bottom Type
(Riffle)

4-5*

Color/Turbidity

1/1

Velocity

2

Flow (C.F.S.)

161.4

Temp. (°F.)

38°

pH

5

Fry Abundance

0

Benthos
Sample No.

Higher Plant
Class

1

Aquatic Veg.
Density
Ident.

3

(1) Mosses

(2) Algae

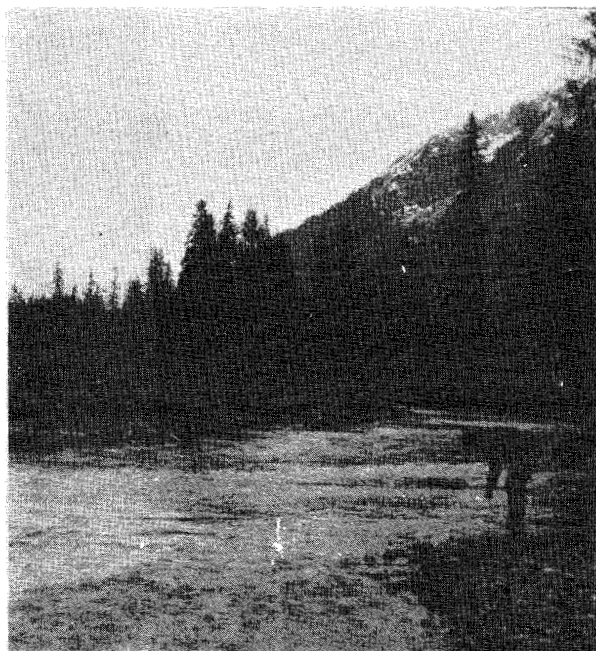
2

General Remarks (rehab., land use, barriers, log jams, etc.): 30% rubble, 70% gravel.

PEAK ESCAPEMENT RECORD

Leduc Lake Creek
101-71-04B

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
8-3-61	25	170	42 kings	
8-15-69	25		5 kings	
8-20-72	150		85 kings	
8-5-73		75	12 kings	
8-9-74			12 kings	
8-17-75		75	13 kings	
- 202 -				



Butler Creek - 101-71-04F

Butler Creek
101-71-04F
10-28-75
R.Larson, D.Ward

Steep rapids

SLIDE

1/2 mile

Slide

SPRUCE

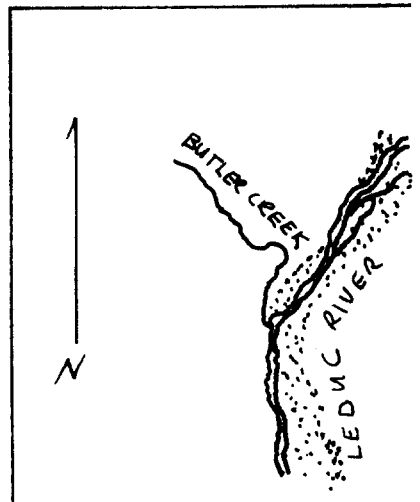
Debris

Beaver dams

BRUSH

COTTON WOOD TREES

SLIDE



Name Butler Creek Catalog No. 101-71-04F
Latitude N 56° 02' 20" WR No. _____
Longitude W 130° 43' 20" K No. _____
Geodetic Map No. Bradfield Canal A-3 Work Area Ketchikan
Location Lf. side Leduc R. Watershed Length 3.5 miles
Drainage Area of Watershed 9 sq. miles
Water Supply Type Snow water, runoff.

Trails & Survey Routes Stream easily walked the short distance to the barrier.

Aerial Survey Notes Good stream to survey by air, bottom is not too dark and little overhead cover.

Anchorage _____

Tide Stage When Surveyed _____

FISHERY RESOURCES

Commercial Fisheries Unknown. Probably coho, pink, chum and maybe king.

Escapement No record of any survey. Spawning area = 4064 m².
(2500' x 35' x 50% ASA)

Species Composition Unknown

Timing Probably early-middle

Schooling areas At confluence with Leduc River.

Shellfish Potential _____

Sport Fisheries Limited. Should be some Dolly Varden.

Land Use at Present None

History of Land Use Mining exploration done in area.

Rehabilitation Potential None

Soils Stable. Steep slopes are subject to snowslides.

GAME RESOURCES

Bear	-----	Fish carcasses or bones (old or fresh) on banks, estimate	_____
		Number of droppings	_____
Geese	-----	Number seen on tide flats	_____
		Number seen up creek	_____
		Number of broods seen	_____
Mallards	---	Number seen on tide flats	_____
		Number seen up creek	_____
		Number of broods seen	_____
Mergansers	-	Number of broods seen	_____
Bald Eagles	-	Number seen along creek	_____
		Number of nests seen and location	_____
Seals	-----	Number seen at mouth of stream	_____
Tide flats	-	Estimate length along beach	_____
		Estimate depth cut from beach	_____
		Eel grass present on what percent of flats	_____

STREAM INVENTORY FORM

Observers: R. Larson, D. Ward

Date: 10-28-75

Temperature: 40°

Weather: Overcast.

Name: Butler Creek &

Number: 101-71-04F

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Station No.

1

Pool Size/Type

2/2

Riffle Type
Width-Depth

36'W
.9'D

Pool Riffle
Frequency

3

Bottom Type
(Riffle)

4

Color/Turbidity

1/1

Velocity

2

Flow (C.F.S.)

65.6

Temp. (°F.)

36°

pH

4

Fry Abundance

0

Benthos
Sample No.

Higher Plant
Class

4

Aquatic Veg.
Density

3

Ident.

(1) Mosses

(2) Algae

2

General Remarks (rehab., land use, barriers, log jams, etc.):

40% ASA

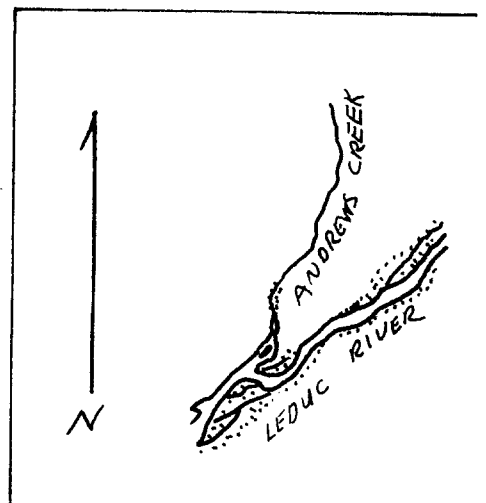
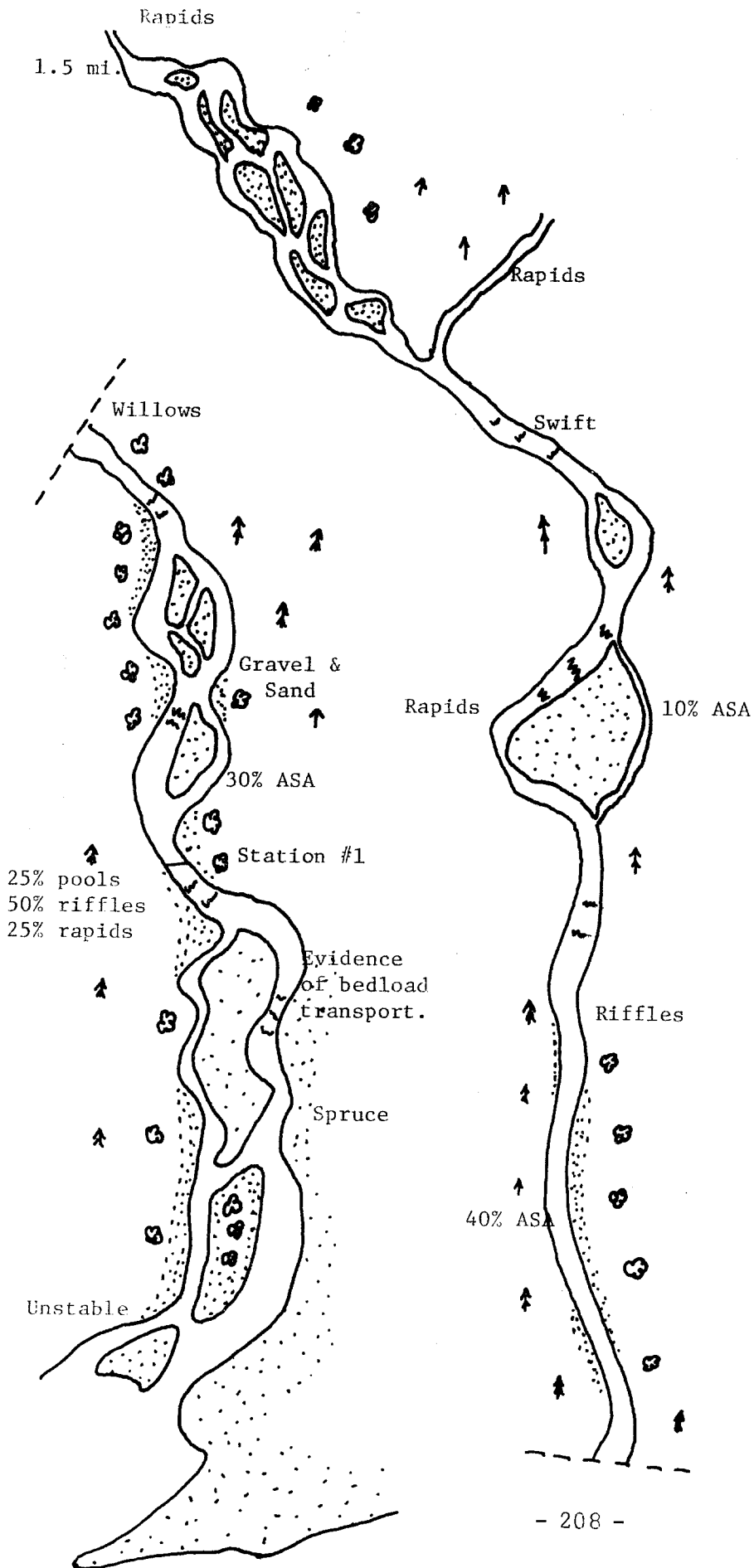
PEAK ESCAPEMENT RECORD

Butler Creek
101-71-04F

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
8-3-61	60	15	77 kings	

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Andrews Creek
101-71-04G
10-28-75
R.Larson



Name Andrews Creek Catalog No. 101-71-04G
Latitude N 56° 05' 06" WR No. _____
Longitude W 130° 39' 30" K No. _____
Geodetic Map No. Bradfield Canal A-2 Work Area Ketchikan
Location Lf. side Leduc R. 7 mi from head Watershed Length 8 mi. major trib. included
Drainage Area of Watershed 28 sq. miles
Water Supply Type Melting snow, glaciers, precipitation.

Trails & Survey Routes Round, smooth, water and ice worn rocks make walking this stream uncomfortable.

Aerial Survey Notes Although the water was clear when visited this time, silt trapped between rocks indicates that it may become quite turbid at times.

Anchorage _____

Tide Stage When Surveyed _____

FISHERY RESOURCES

Commercial Fisheries Unknown. May have pink, chum, king and coho although this creek has much spawning area, factors such as stream bed transport and siltation ~~XXXXXXXXXX~~ may affect quality. ESCAPEMENT: Not surveyed during salmon runs.
(5,000' x 40' x 35% ASA) Spawning area = 6503 m²

Species Composition Unknown

Timing Probably early.

Schooling areas In mouth of creek at confluence with Leduc River.

Shellfish Potential _____

Sport Fisheries Unknown, may have Dolly Varden.

Land Use at Present None

History of Land Use Unknown. Mineral exploration has been done in past.

Rehabilitation Potential None

Soils Is rocky with some braiding occurring. Downstream bedload movement evident.

GAME RESOURCES

Bear ----- Fish carcasses or bones (old or fresh) on banks, estimate _____

Number of droppings _____

Geese ----- Number seen on tide flats _____

Number seen up creek _____

Number of broods seen _____

Mallards --- Number seen on tide flats _____

Number seen up creek _____

Number of broods seen _____

Mergansers - Number of broods seen _____

Bald Eagles- Number seen along creek _____

Number of nests seen and location _____

Seals ----- Number seen at mouth of stream _____

Tide flats - Estimate length along beach _____

Estimate depth out from beach _____

Eel grass present on what percent of flats _____

STREAM INVENTORY FORM

Observers: R.Larson, D.Ward

Date: 10-28-75

Name: Andrews Creek

Temperature: 40°

Number: 101-71-04G

Weather: Overcast

Station No.

1

Pool Size/Type

1/1

Riffle Type
Width-Depth

43'W
.9'D

Pool Riffle
Frequency

3

Bottom Type
(Riffle)

4/5*

Color/Turbidity

1/1

Velocity

2

Flow (C.F.S.)

67.9

Temp. (°F.)

36°

pH

5

Fry Abundance

0

Benthos
Sample No.

Higher Plant
Class

Cottonwoods & Spruce
4

Aquatic Veg.
Density

3

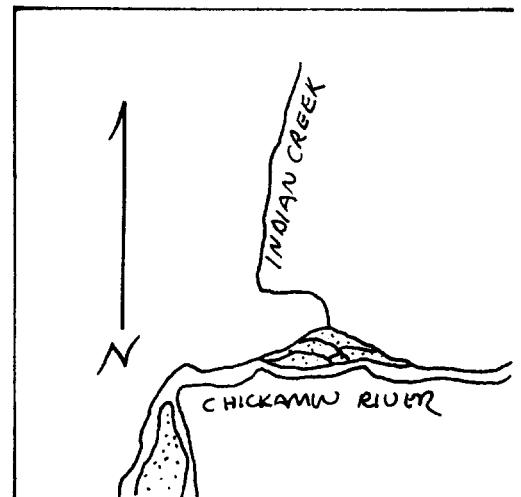
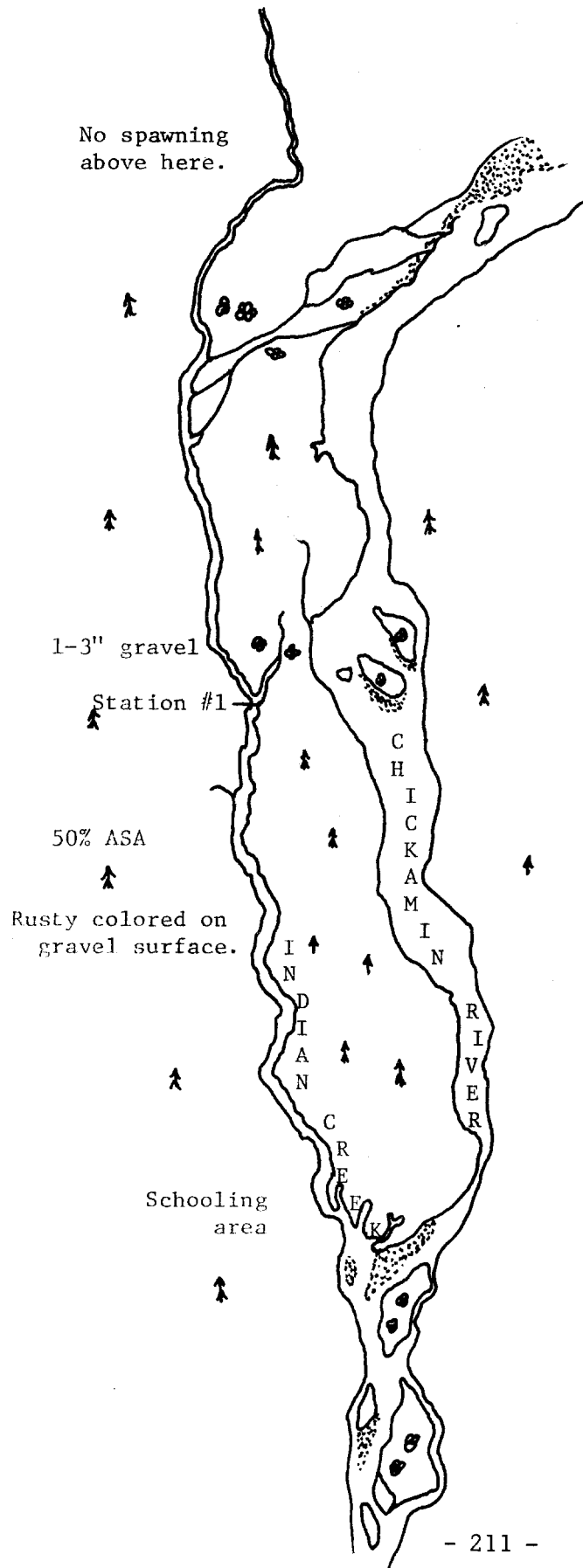
Ident.

(1) Mosses

(2) Algae

General Remarks (rehab., land use, barriers, log jams, etc.): 40% rubble and coarse gravel. 60% gravel. Looks as though it may be quite silty at times. No sign of adults observed.

Indian Creek
101-71-04K
10-28-75
R.Larson, D. Ward



Name Indian Creek Catalog No. 101-71-04K
Latitude N 55° 40' 20" WR No. -
Longitude W 130° 59' 10" K No. -
Geodetic Map No. Ketchikan D-2 Work Area Ketchikan
Location Left side main Fork Chickamin River Watershed Length 4.5 miles
Drainage Area of Watershed 6.5 sq. miles
Water Supply Type Snow water runoff and precipitation.

Trails & Survey Routes Stream banks relatively easily walked if water levels are low.

Aerial Survey Notes Several deep holes at lower portion of stream and dark rusty colored bottom. May mask some fish but generally good.

Anchorage -

Tide Stage When Surveyed -

FISHERY RESOURCES

Commercial Fisheries King and coho major species. Pink and chum present in unknown numbers.

Escapement Not often surveyed. 1,500 coho 10-28-75. 66 kings 8-12-75. Spawning area = 11,613 m² (5000 x 50 x 50% ASA)

Species Composition -

Timing -

Schooling areas Several large deep pools especially in lower section.

Shellfish Potential -

Sport Fisheries Good population of Dolly Varden, possibly steelhead.

Land Use at Present King salmon egg procurement site.

History of Land Use Mineral exploration in area.

Rehabilitation Potential None needed.

Soils Stable except where influenced by floodwaters of Chickamin River.

GAME RESOURCES

Bear ----- Fish carcasses or bones (old or fresh) on banks, estimate
Number of droppings Several fish bones and a few bear tracks

Geese ----- Number seen on tide flats observed.

Number seen up creek

Number of broods seen

Mallards --- Number seen on tide flats

Number seen up creek

Number of broods seen

Mergansers - Number of broods seen

Bald Eagles- Number seen along creek

Number of nests seen and location

Seals ----- Number seen at mouth of stream

Tide flats - Estimate length along beach

Estimate depth out from beach

Sea grass present on what percent of flats

STREAM INVENT Y FORM

Observers: R. Larson, D.W. L

Name: Indian Creek

Date: 10-28-75

Number: 101-71-04K

Temperature: 39°

Weather: Overcast

Station No.

1

Pool Size/Type

1/1

Riffle Type
Width-Depth

52'W
.5'D

Pool Riffle
Frequency

2

Bottom Type
(Riffle)

4

Color/Turbidity

1/1

Velocity

2

Flow (C.F.S.)

26.4

Temp. (°F.)

39°

pH

6

Fry Abundance

8-30

Benthos
Sample No.

-

Higher Plant
Class

4 Cottonwood

Aquatic Veg.
Density
Ident.

1

(1) Mosses
(2) Algae

2

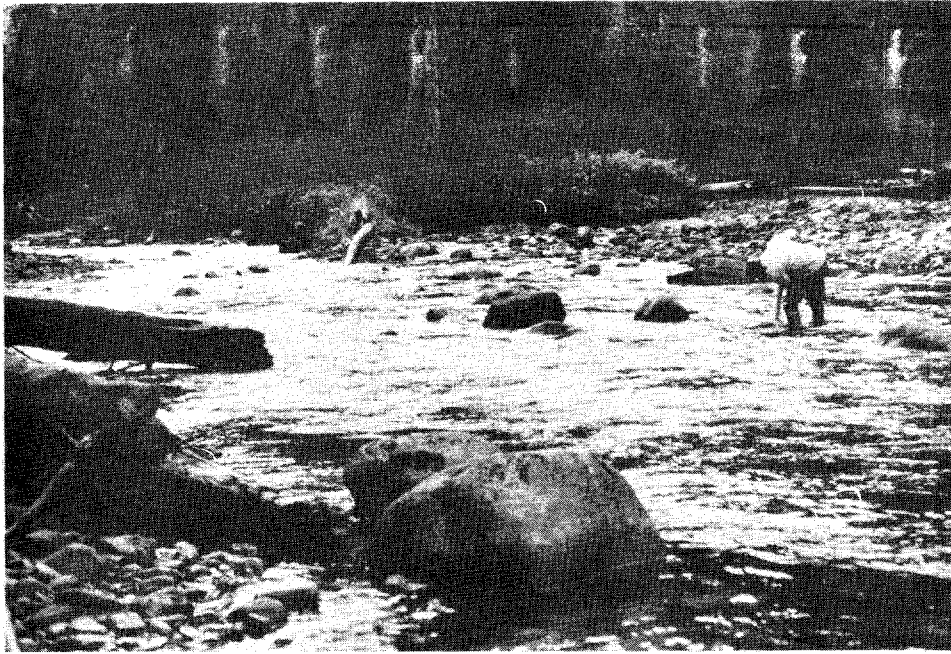
General Remarks (rehab., land use, barriers, log jams, etc.): Rusty colored bottom. Wolf and bear tracks on banks. Salmon bones on bank.

PEAK ESCAPEMENT RECORD

Indian Creek
101-71-04K

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
8-28-61	2,500	1,500	4 kings	

- 214 -



Barrier Creek, station #1

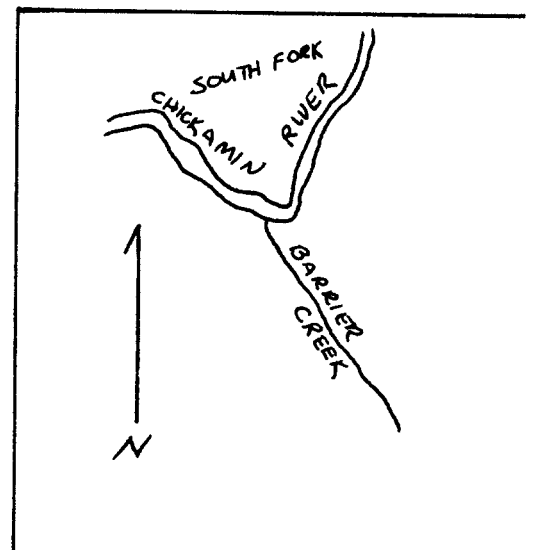
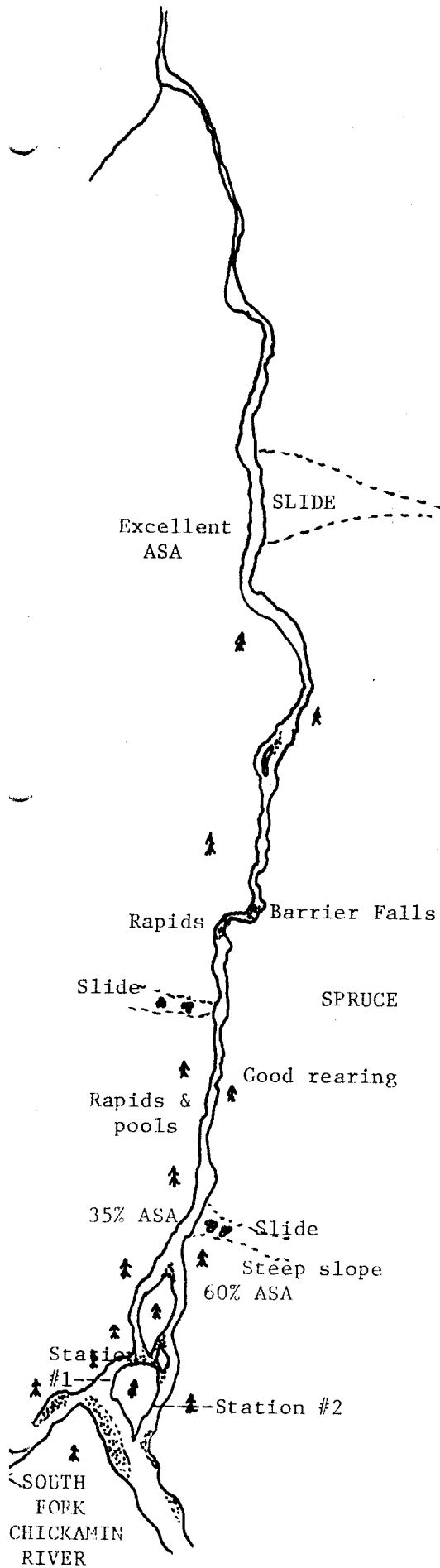


Barrier Creek, station #2



Junction of Barrier Creek with the
South fork of the Chickamin River.

Barrier Creek
101-71-04Q
10-28-75
R.Larson, D.Ward



Name Barrier Creek Catalog No. 101-71-040
Latitude N 55° 51' 12" WR No. 40
Longitude W 130° 37' 42" K No. 44-4
Geodetic Map No. Ketchikan D-2 Work Area Ketchikan
Location S.fork Chickamin River Watershed Length 10.5 miles
Drainage Area of Watershed 52.5 sq. miles (polar planimeter)
Water Supply Type Snow water runoff and precipitation.

Trails & Survey Routes Stream can be walked at low water but has brushy banks and frequent large boulders and logs.

Aerial Survey Notes Considerable portions of stream are swift with many rocks and small pools. Fish on the riffles in the lower portion are seen easily.

Anchorage Stream mouth can be reached by riverboat. (Trib. to Chickamin)

Tide Stage When Surveyed -

FISHERY RESOURCES

Commercial Fisheries Important spawning area for king salmon. Pink and chum, also coho present.

Escapement Stream not often surveyed. Spawning area = 16,722 m² (7500' x 60' x 40% ASA)

Species Composition Most important species is king salmon.

Timing early - July, August.

Schooling areas Just off mouth in main river.

Shellfish Potential -

Sport Fisheries Dolly Varden present, may also have steelhead.

Land Use at Present King salmon egg procurement site.

History of Land Use Unknown.

Rehabilitation Potential Extensive barrier falls would be very difficult to ladder, may be some good spawning area above falls.

Soils Quite rocky, generally stable, except on steep slopes (subject to snow-slides).

GAME RESOURCES

Bear ----- Fish carcasses or bones (old or fresh) on banks, estimate
Number of droppings several fresh tracks.

Geese ----- Number seen on tide flats

Number seen up creek

Number of broods seen

Mallards ---- Number seen on tide flats

Number seen up creek

Number of broods seen

Mergansers - Number of broods seen

Bald Eagles- Number seen along creek

Number of nests seen and location

Seals ----- Number seen at mouth of stream

Tide flats - Estimate length along beach

Estimate depth out from beach

Eel grass present on what percent of flats

STREAM INVENTORY FORM

Observers: R. Larson, D. W.

Date: 10-28-75

Temperature: 41°

Weather: Overcast

Name: Barrier Creek

Number: 101-71-040

Station No.

Pool Size/Type

Riffle Type
Width-Depth

Pool Riffle
Frequency

Bottom Type
(Riffle)

Color/Turbidity

Velocity

Flow (C.F.S.)

Temp. (°F.)

pH

Fry Abundance

Benthos
Sample No.

Higher Plant
Class

Aquatic Veg.
Density
Ident.

(1) Mosses
(2) Algae

1	2														
3/1	2/2														
44' W 1.1' D	76' W .7' D														
3	3														
4-5*	4														
1/1	1/1														
2	2														
98.3	97.7														
37°	37°														
6	6														
0	0														
1	1														
3	3														
2	2														

General Remarks (rehab., land use, barriers, log jams, etc.): *50% rubble, 50% gravel.

PEAK ESCAPEMENT RECORD

Grizzly Creek (Barrier Creek)
101-71-04Q

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
9-6-61	31	31	36 kings	
8-15-69	10		45 kings	45 in south fork of Chickamin.
8-20-72	50		25 kings	12,000+ pinks & chums, 350 kings 8-9-72 in south fork.
8-5-73	110		12 kings	45 kings in south fork.
8-9-74			20 kings	107 kings in south fork of Chickamin.
8-17-75	11		9 kings	60 pinks, 115 kings in south fork

- 220 -

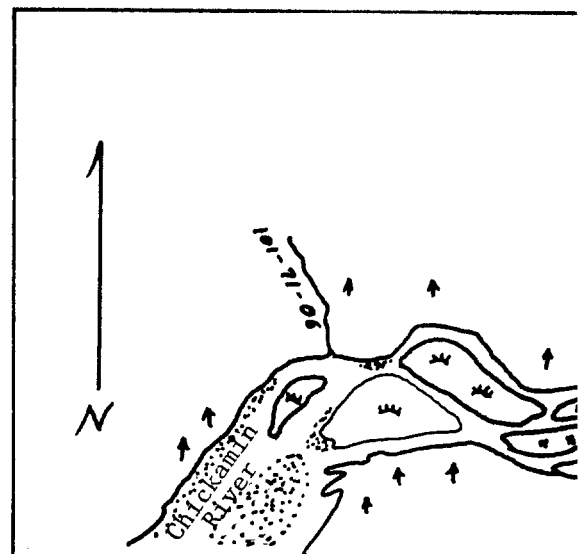
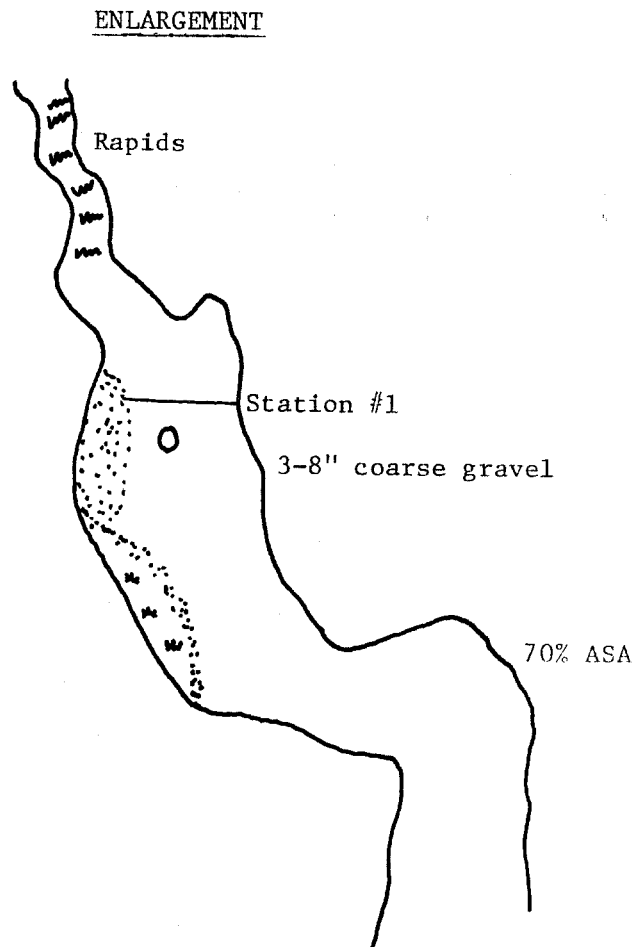
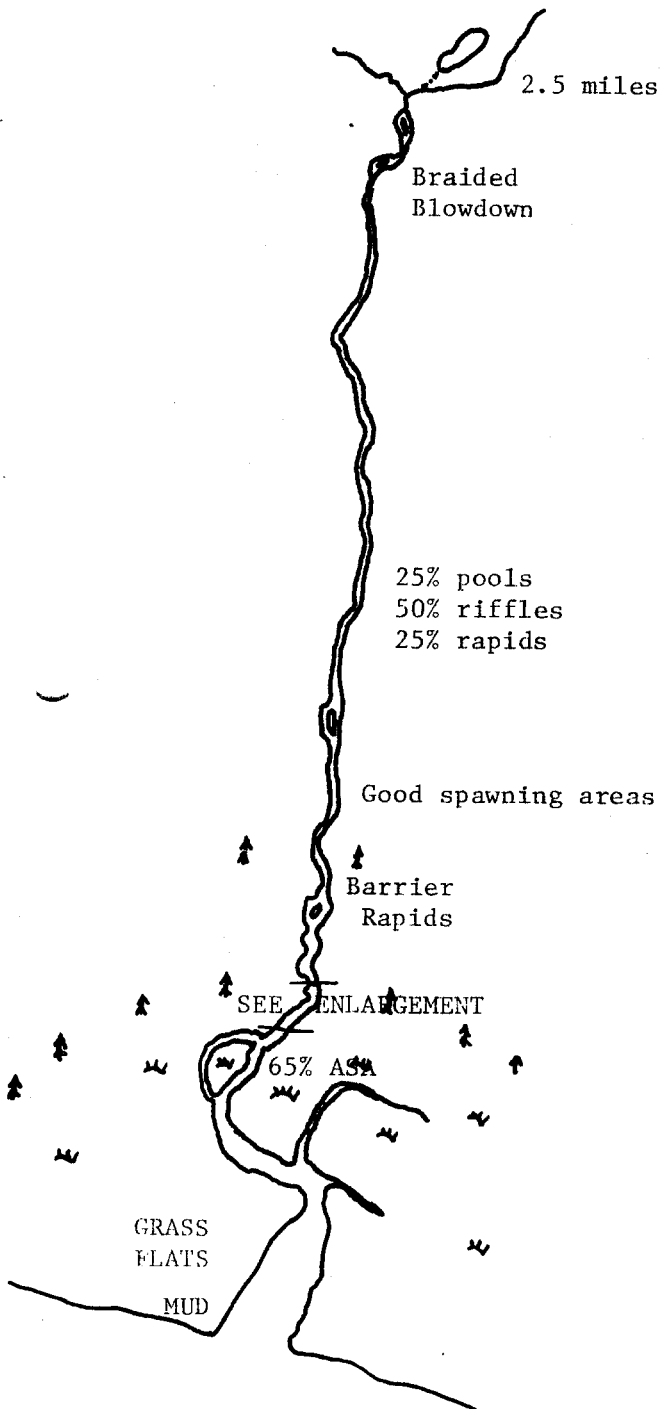


Clear Creek, Station #1



Clear Creek, Station #1

Clear Creek
 101-71-06
 10-28-75
 R.Larson, D.Ward



Name Clear Creek Catalog No. 101-71-06
 Latitude N 55° 49' 27" WR No. 40A
 Longitude W 130° 55' 31" K No. 44-5
 Geodetic Map No. Ketchikan D-5 Work Area Ketchikan
 Location Lf. side Chickamin R. 3 mi E. Fish Pt. Watershed Length 3 miles
 Drainage Area of Watershed 4.9 sq. miles (polar planimeter)
 Water Supply Type Precipitation and melting snow.

Trails & Survey Routes Not easily walked due to brush on banks and steep lower section.

Aerial Survey Notes Difficult to survey by air except for short distance below first rapids.

Anchorage Small boat directly in mouth.

Tide Stage When Surveyed 1/2

FISHERY RESOURCES

Commercial Fisheries Pink, chum and coho. Spawning area for pinks and chums severely limited.

Escapement Not often surveyed. 2100, 1966; 4000, 1972; 1200, 1974.
(500'x30'x70% ASA) below falls. Spawning area = 975 m².

Species Composition Mostly pink reported, unknown numbers of coho pass upstream.

Timing Pink and chums are early.

Schooling areas in lower section of stream.

Shellfish Potential The Chickamin River delta has considerable numbers of crabs.

Sport Fisheries Trout present.

Land Use at Present None

History of Land Use Unknown

Rehabilitation Potential An evaluation of the rapids and falls area on the lower section should be made.

Soils Generally stable, upstream shows signs of instability.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	50
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	20
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	1
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	
	Estimate depth out from beach	
	Eel grass present on what percent of flats	

STREAM INVENTORY FORM

Observers: R.Larson, D.Ward

Date: 10-28-75

Temperature: 37°

Weather: Overcast

Name: Clear Creek

Number: 101-71-06

Station No.

1

Pool Size/Type

1/2

Riffle Type

31'W

Width-Depth

.8'D

Pool Riffle

Frequency

3

Bottom Type

(Riffle)

4

Color/Turbidity

1/1

Velocity

2

Flow (C.F.S.)

28.2

Temp. (°F.)

41°

pH

5

Fry Abundance

Benthos

Sample No.

Higher Plant

Class

2

Aquatic Veg.

Density

3

Ident.

(1) Mosses

(2) Algae

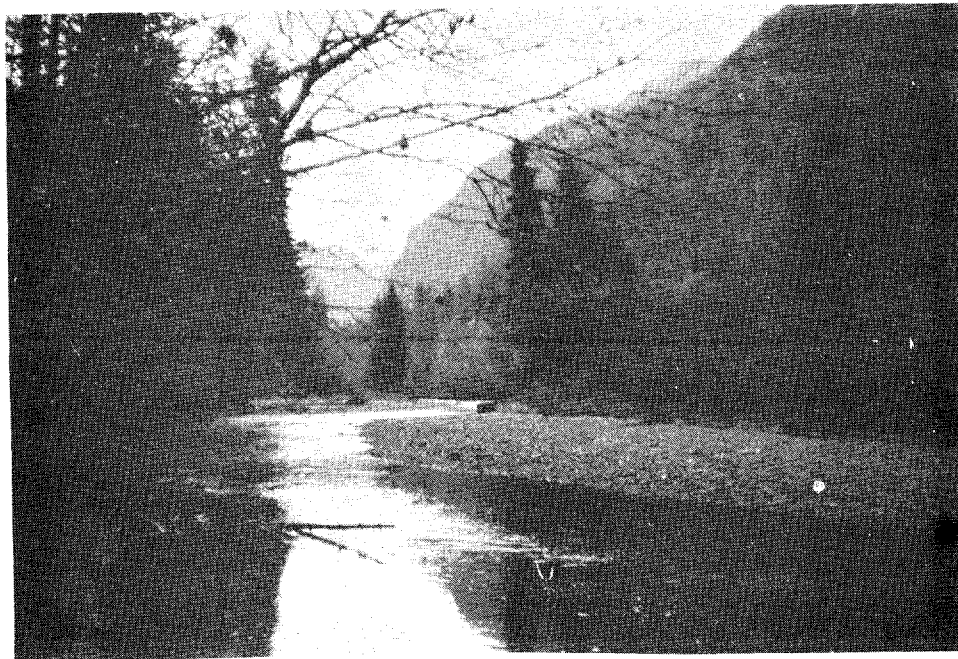
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General Remarks (rehab., land use, barriers, log jams, etc.):

PEAK ESCAPEMENT RECORD

Clearwater Creek
101-71-06

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
9-19-47	10			Some chum, coho
8-4-49				Very good.
8-10-50	500	200		
8-11-51	800	50		
8-11-52	8,700	150		470 pink dead, 200 chum dead.
8-24-53				Poor. No pink. All season very unusual.
8-12-66	2,100			200 dead, visibility good.
7-31-72	4,000			Visibility excellent.
8-7-74	800			400 @ I.T. Visibility good.
- 225 -				

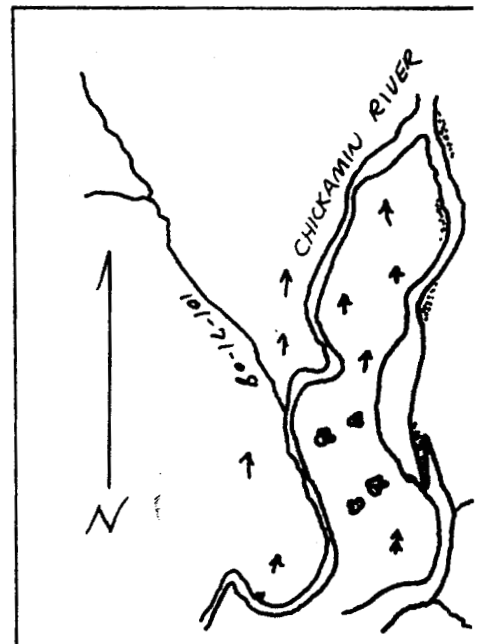
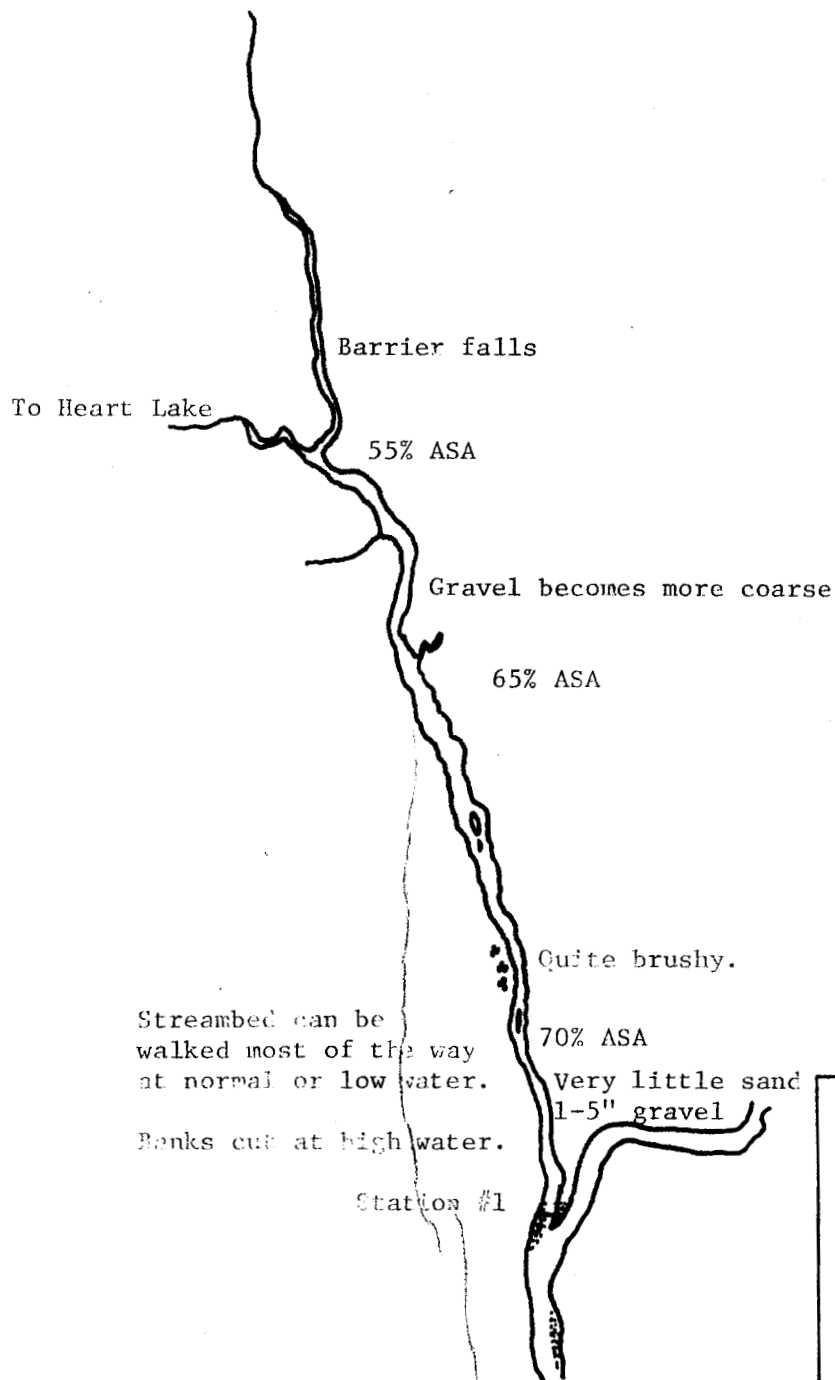


Humpy Creek, upstream from Station #1



Humpy Creek, Station #1 in foreground

Humpy Creek
101-71-08
10-28-75
R.Larson, D.Ward



Name Humpy Creek Catalog No. 101-71-08
Latitude N 55° 50' 13" WR No. 40
Longitude W 130° 52' 13" K No. 44-3
Geodetic Map No. Ketchikan D-3 Work Area Ketchikan
Location Left side Chickamin River. Watershed Length 7.5 miles
Drainage Area of Watershed 17 sq. miles (polar planimeter)
Water Supply Type Precipitation and snow water runoff.

Trails & Survey Routes Stream can be walked along lower section but considerable windfall and some beaver activity on upper section.

Aerial Survey Notes Good for aerial survey work in lower section. Light colored bottom and open canopy.

Anchorage Trib. to Chickamin River. Small skiff can be taken to mouth of river.

Tide Stage When Surveyed -

FISHERY RESOURCES

Commercial Fisheries Second largest spawning stream in Chickamin River system. King, coho, pink and chum utilize stream.

Escapement high historic: 50,000 pink, '56, 200+ kings - '57, 1961-74 average 10,300. (8000' x 39' x 65% ASA) Spawning area = 18,840 m²

Species Composition Mainly pinks with good coho and king potential.

Timing August.

Schooling areas In slough at mouth and several pools in lower section of stream.

Shellfish Potential --

Sport Fisheries Excellent for Dolly Varden may also have cutthroat and steelhead.

Land Use at Present None

History of Land Use Unknown

Rehabilitation Potential None needed physically. Good candidate stream for stocking to rebuild runs.

Soils Cut banks evident. No siltation problem evident.

GAME RESOURCES

Bear ----- Fish carcasses or bones (old or fresh) on banks, estimate
Number of droppings

Geese ----- Number seen on tide flats

Number seen up creek

Number of broods seen

Mallards --- Number seen on tide flats

Number seen up creek

Number of broods seen

Mergansers - Number of broods seen

Bald Eagles- Number seen along creek

Number of nests seen and location

Seals ----- Number seen at mouth of stream

Tide flats - Estimate length along beach

Estimate depth out from beach

Eel grass present on what percent of flats

STREAM INVENTORY FORM

Name: Humpy Creek

Number: 101-71-08

Observers: R. Larson, D. Ward

Date: 10-28-75

Temperature: 39°

Weather: Overcast

Station No.

1

Pool Size/Type

2/2

Riffle Type
Width-Depth

39'W

Pool Riffle
Frequency

3

Bottom Type
(Riffle)

4

Color/Turbidity

1/1

Velocity

2

Flow (C.F.S.)

48.2

Temp. (°F.)

38°

pH

5

Fry Abundance

0

Benthos
Sample No.

Higher Plant
Class

1

Aquatic Veg.
Density

3

Ident.

(1) Mosses

(2) Algae

2

General Remarks (rehab., land use, barriers, log jams, etc.):

Very little sand in the gravel, beautiful spawning riffle.

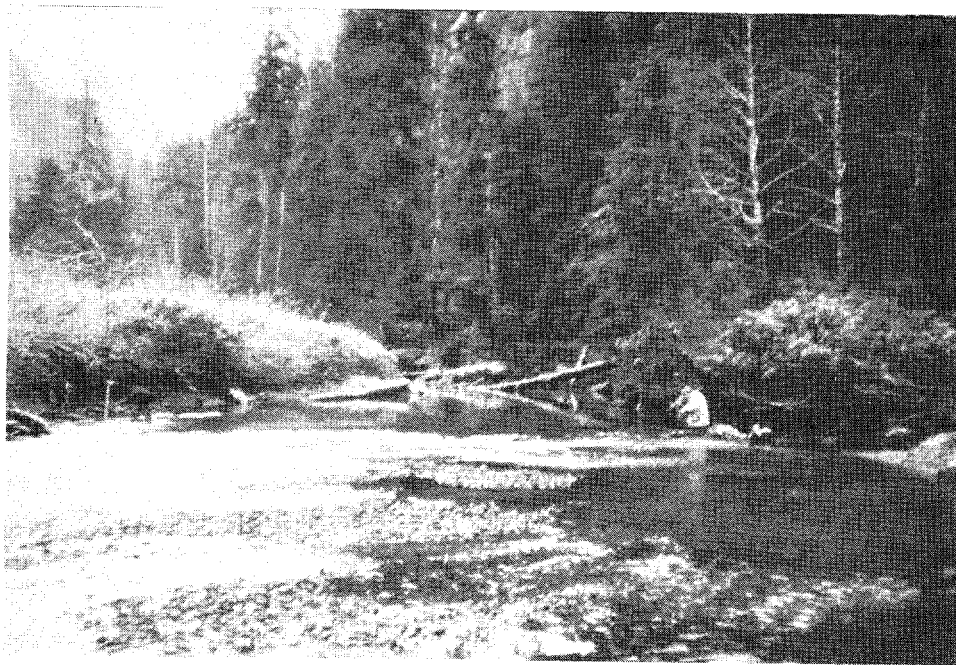
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PEAK ESCAPEMENT RECORD

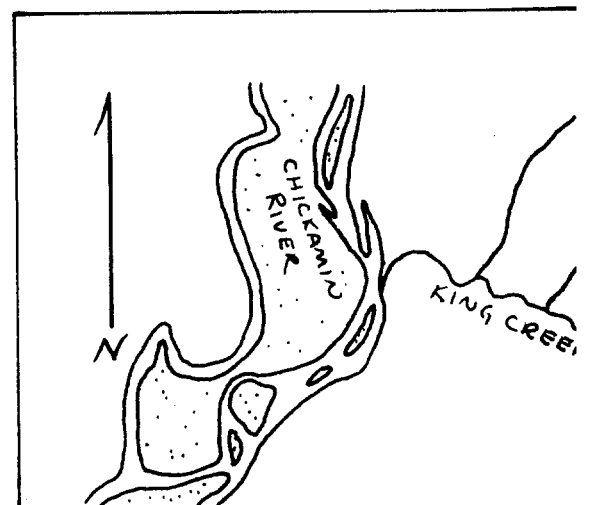
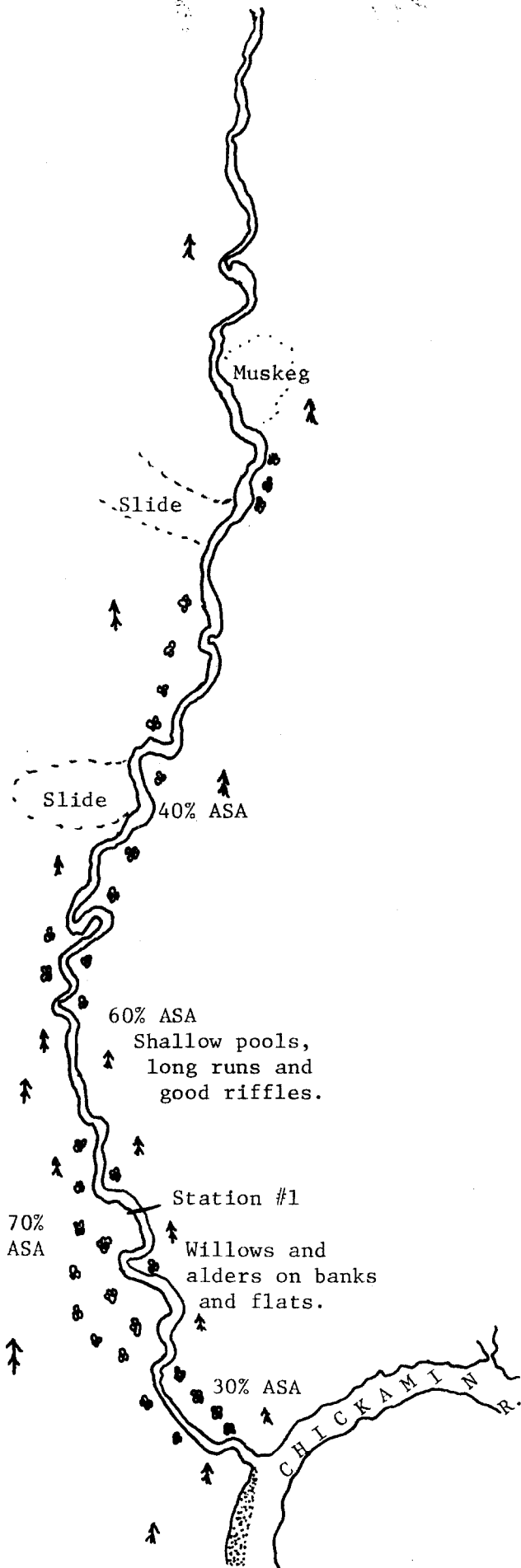
Humpy Creek
101-71-08

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
7-19-49				12 chum at mouth.
8-10-50	10,000			Chum present.
8-11-51	17,200	150		660 dead pink, 60 dead chum.
8-11-52	10,800	26	several coho, 18 kings	380 dead pink, 127 dead chum.
8-1-53	1,714	939	1 red	
8-12-55	4,000	1,000		
8-13-56	50,000			5000 dead pink.
7-31-57	15,000		200 kings (8-19)	Some chum
8-9-60	4,000	1,000	2-3000 kings	
8-25-61	1,400			Schooled throughout stream. 800 at mouth.
8-17-62	7,400		150 kings	
8-13-63		1100		11,000 @ mouth. Visibility good.
8-18-64	3,000	few		2000 @ mouth. Fish spawning, many dead.
8-16-65	100			4,500 pink & chum @ mouth. Vis. good.
8-12-66	23,200		few coho, 1 red, few kings	Visibility excellent. 2000 dead.
8-20-67	600	200		Visibility fair.
7-29-68	8,000	1,700	30 kings	Excellent visibility. 7000 @ mouth. Fish to falls.
8-21-69	4,300		7 kings	Vis. good. Fish all spawning.
8-18-70	10,500			300 @ mouth. Vis. good.
8-12-71	15,000	1,400		Visibility good.
8-9-72	8,900	5,000		2500 @ mouth. Vis. good.
8-4-73	12,300		14 kings	
8-15-74		12,500		1000 dead. Vis. good
8-11-75	8,000	2,000	5 kings	Visibility fair.



King Creek, Station #1

King Creek
 101-71-14
 10-28-75
 R.Larson, D.Ward



Name King Creek Catalog No. 101-71-14
Latitude N 55° 50' 27" WR No. 40-
Longitude W 130° 50' 52" K No. 44-2
Geodetic Map No. Ketchikan D-3 Work Area Ketchikan
Location Rt. side Chickamin R. 6.7 mi. from Watershed Length 9 miles
Drainage Area of Watershed 17.8 sq.mi. Trap Pt. _____
Water Supply Type Melting snow and precipitation.

Trails & Survey Routes Banks quite brushy, stream can be walked at low water levels.
Aerial Survey Notes Light colored bottom and clear water make for good visibility. Very little tree cover on lower section.
Anchorage Tributary stream to Chickamin River.

Tide Stage When Surveyed -

FISHERY RESOURCES

Commercial Fisheries Pink, chum, king and coho.

Escapement High historic = 46,000 7-29-68. Odd year ave. since '65 - 6,420. Even year ave. since '64 = 32,340. Spawning area = 49,051 m² (26,400'x50'x40% ASA)

Species Composition Important king salmon stream. Major species is pink salmon but considerable, though highly variable, numbers of chum often present.

Timing Early - August.

Schooling areas At creek mouth.

Shellfish Potential none

Sport Fisheries Steelhead, Dolly Varden, possibly cutthroat.

Land Use at Present None. Chickamin River drainage in proposed wilderness area

History of Land Use Unknown. Mineral exploration in the area.

Rehabilitation Potential None needed to increase fishery production.

Soils Generally stable; mostly well sorted gravel with some high water bedload movement evident. Snowslides prevalent on some steep slopes in the watershed.

GAME RESOURCES

Bear ----- Fish carcasses or bones (old or fresh) on banks, estimate _____
Number of droppings A few tracks.

Geese ----- Number seen on tide flats _____

Number seen up creek _____

Number of broods seen _____

Mallards --- Number seen on tide flats _____

Number seen up creek _____

Number of broods seen _____

Mergansers - Number of broods seen _____

Bald Eagles- Number seen along creek _____

Number of nests seen and location _____

Seals ----- Number seen at mouth of stream _____

Tide flats - Estimate length along beach _____

Estimate depth out from beach _____

Eel grass present on what percent of flats _____

STREAM INVENTORY FORM

Observers: R. Larson, D.V. 1

Date: 10-28-75

Name: King Creek

Temperature: 39°

Number: 101-71-14

Weather: Overcast

Station No.

1

Pool Size/Type

1/1

Riffle Type
Width-Depth

50'W
.8'D

Pool Riffle
Frequency

2

Bottom Type
(Riffle)

4

Color/Turbidity

1/1

Velocity

2

Flow (C.F.S.)

61

Temp. (°F.)

39°

pH

5

Fry Abundance

Benthos
Sample No.

Higher Plant
Class

4*

Aquatic Veg.
Density
Ident.

3

(1) Mosses
(2) Algae

1

General Remarks (rehab., land use, barriers, log jams, etc.):

Superlative spawning area.

* Willows and alders.

PEAK ESCAPEMENT RECORD

King (Salmon) Creek

101-71-14

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
9-5-49				Crowded conditions in late Aug.
8-10-50	3,000	500		Several dead pink. 2000 chum 8-21
8-1-51	13,600	200	22 kings	Several dead chum.
8-11-52	8,700	150	88 kings, several coho	Spawning peak.
8-10-53	320	160	Some coho	(2,500 chum 10-5). 10 dead pink, 35 dead chum.
8-12-55	4,000	1,000	500 kings	
8-13-56	35,000		23,000 kings	The great number of kings could be chums. >200 dead pinks.
8-11-57	26,000	(4,000 on 7-31)	500 kings on 8-19	
7-25-60	100			Fish schooled.
8-4-61	1,500	5,000		Biol. research crew.
7-31-62	14,000			Most schooled in lower stream.
8-3-63	1,200	3,200	few kings	Ex. vis. Chums spawning.
8-18-64	14,000	1,000		Fish spawning, many dead.
7-27-65	100	250	50 kings	Visibility excellent.
8-24-66	11,100	few	few king. good show of coho	Vis. good. Many dead, most spawning.
7-31-67	200	1,500	1 coho	Visibility good.
7-29-68	39,000	3,900		7000 @ mouth. Vis. ex. Fish to head of river.
8-6-69	100	360	23 kings	Vis. fair.
8-4-70	34,600		kings present, coho present.	Visibility excellent. few dead.
8-12-71	1,100	2,000		Few 100 dead. Visibility good.
7-31-72	29,000	7,200		Visibility excellent.
8-4-73	10,000	500	65 kings	
8-15-74	14,000			5000 dead, visibility good.
8-11-75	26,400	7,000	30 kings	Visibility excellent.

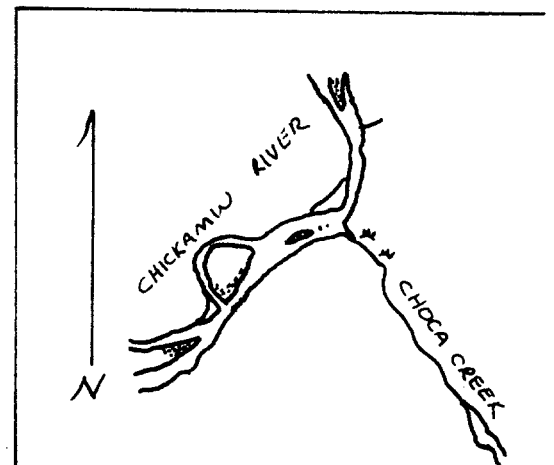
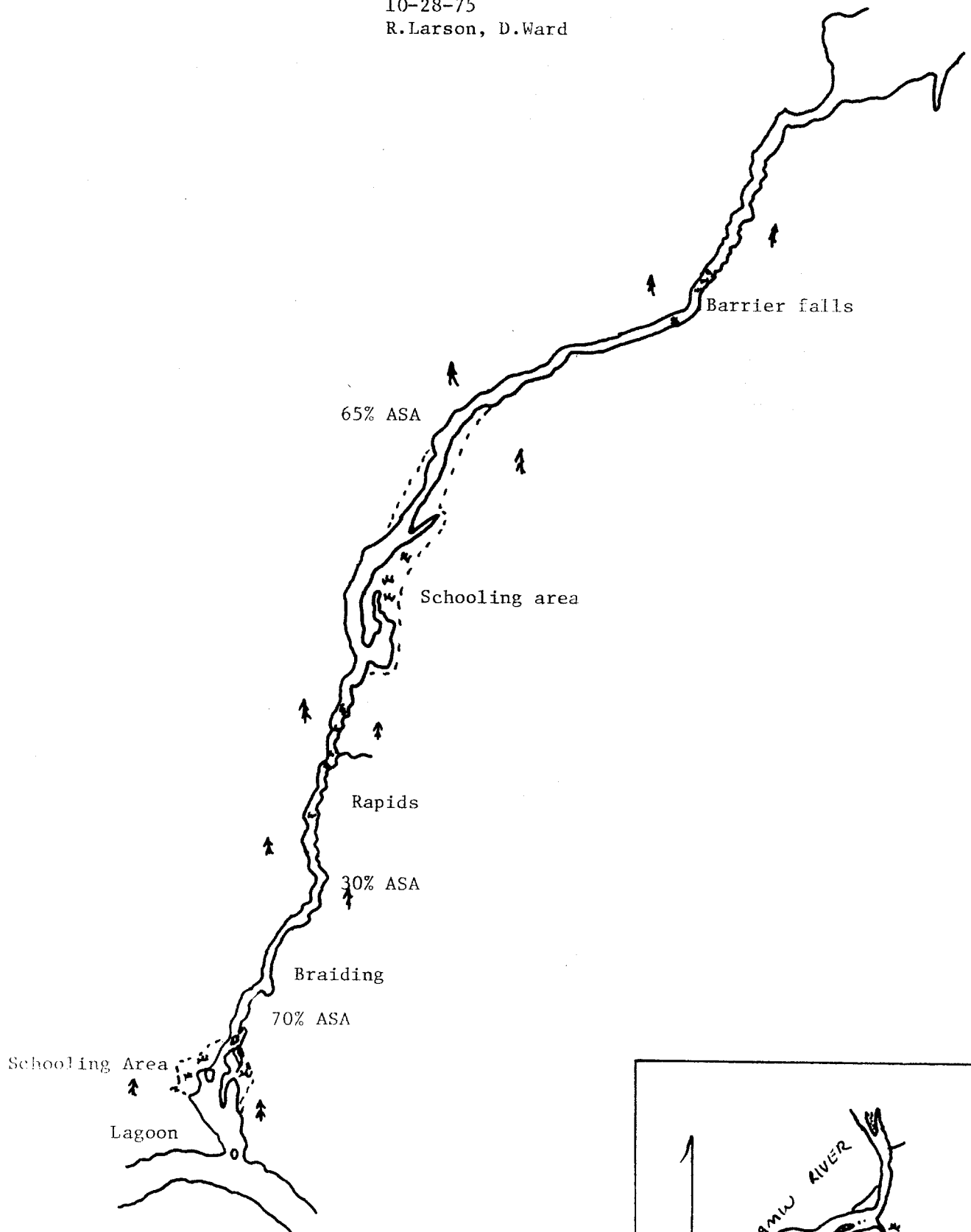


Choca Creek, upstream from Station #1



Choca Creek, downstream from Station #1

Choca Creek
101-71-16
10-28-75
R.Larson, D.Ward



Name Choca Creek Catalog No. 101-71-16
Latitude N 55° 49' 59" WR No. 40
Longitude W 130° 51' 03" K No. 44-1
Geodetic Map No. Ketchikan D-3 Work Area Ketchikan
Location Rt. side Chickamin R. 6.2 mi. Trap Watershed Length 9 mi. major tribs. included.
Drainage Area of Watershed 14 sq. miles
Water Supply Type Two lakes fed with melting snow and precipitation.

Trails & Survey Routes Streams banks are quite brushy, but streambed can be walked at low water levels.

Aerial Survey Notes Light colored bottom and clear water provide good visibility. Lower section of stream has little overhead tree cover.

Anchorage Trib. of Chickamin River.

Tide Stage When Surveyed _____

FISHERY RESOURCES

Commercial Fisheries King salmon, pink, chum and coho.

Escapement Average odd year escapements 61-73 = 3,000 ave. even year esca. 61-73 = 18,000. High historic = 23,000 pink, 4,000 chum, 1950. Spawn. area 15468 m²(7500'x37'x

Species Composition 85% pink, 10 chum, 5 king and coho. 60% ASA)

Timing August.

Schooling areas In lagoon at lower end of river and large flats beginning 1 mile from mouth.

Shellfish Potential _____

Sport Fisheries Dolly Varden and cutthroat in drainage.

Land Use at Present None

History of Land Use Unknown.

Rehabilitation Potential Has barrier falls 2.5 miles from mouth.

Soils Stable.

GAME RESOURCES

Bear ----- Fish carcasses or bones (old or fresh) on banks, estimate _____

Number of droppings _____ Tracks. _____

Geese ----- Number seen on tide flats _____

Number seen up creek _____

Number of broods seen _____

Mallards --- Number seen on tide flats _____

Number seen up creek _____

Number of broods seen _____

Mergansers - Number of broods seen _____

Bald Eagles- Number seen along creek _____

Number of nests seen and location _____

Seals ----- Number seen at mouth of stream _____

Tide flats - Estimate length along beach _____

Estimate depth out from beach _____

Reel grass present on what percent of flats _____

STREAM INVENTORY FORM

Name: Choca Creek

Number: 101-71-16

Observers: R.Larson, D.Ward

Date: 10-28-75

Temperature: 37°

Weather: Overcast

Station No.

1

Pool Size/Type

2/2

Riffle Type
Width-Depth

37' W
.8' D

Pool Riffle
Frequency

3

Bottom Type
(Riffle)

4

Color/Turbidity

1/1

Velocity

2

Flow (C.F.S.)

49.3

Temp. (°F.)

39°

pH

5

Fry Abundance

0

Benthos
Sample No.

0

Higher Plant
Class

1

Aquatic Veg.
Density

1

Ident.

(1) Mosses

(2) Algae

2

General Remarks (rehab., land use, barriers, log jams, etc.):

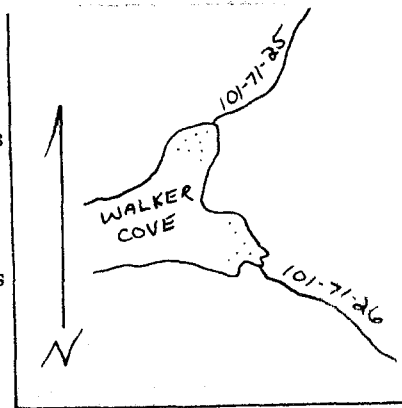
PEAK ESCAPEMENT RECORD

Choca Creek
101-71-16

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
9-5-49				Crowded conditions in late Aug.
8-10-50	23,000	5,000		Some dead chum, 300 dead pink.
8-11-51	15,000	400	several kings present.	80 dead pinks, 10 dead chum.
8-11-52	10,700	200	35 kings, few dead coho.	Spawning peak appears here. 100 dead pink.
8-10-53	1,610	250	5 king, 10 red.	
7-31-55	7,000			Some chum. Some dead chum, pink.
8-13-56	20,000	5,000 on 7-29.		Many spawning in lower stream.
8-19-57	5,000			Some chum, dead chum. Many dead pink.
8-9-60	200			
7-25-61				4 at mouth.
7-31-62	7,000			Most in lower stream.
8-16-63		4,100 mostly pinks		Visibility good.
8-4-64		16,300		Visibility fair.
8-16-65	500			Visibility good.
8-24-66	20,000	2,600	few king & coho	500 I.T. Visibility good. Fish spawning, many dead.
8-14-67	400	80		Visibility excellent.
8-19-68	10,800	1,000	coho, king present	6000 @ mouth. Few 1000 dead.
8-6-69	85	20		Visibility fair.
8-4-70		20,100		Visibility fair.
8-12-71	2,600	few		Visibility fair.
7-31-72	22,000			Visibility good.
8-17-73	11,600			Visibility good.
8-15-74		21,000		4000 dead. Visibility good.
8-11-75	33,000	4,000	1 king	Visibility excellent.

Barrier falls reported .3 miles upstream.
 Stopped here: approx. 1/2
 mile above treeline. Looks
 like it continues on with
 good spawning area

N.Hd Walker Cove
 101-71-25
 7-31-75
 Downey, R.Larson



20 pinks

← 5 pinks

← 60 pinks

8 pinks

More open and easier
 walking from the forks
 upstream. Larger gravel
 6-8" but less velocity
 and more ASA.

← Approx. 300 yds above treeline.

Unidentified fry observed throughout the stream.

60% available spawning area
 Old chum bones scattered throughout the
 system.

This is a relatively flat
 area and there are some
 dry overflow channels between
 the branches.

1 ft. This is a nice brance, havin
 drop less flow but less velocity
 over and quite a bit of spawning
 log. area. Better and smaller
 200 gravel 2-4".
 pinks

This is a very nice stream and has
 the potential of receiving good
 escapements.

125 yds above
 treeline.

318 pinks in the stream
 all fresh and schooled.

← Less velocity
 in this channel
 also and some
 good spawning
 area here.

Good gravel but swifter
 flow here. Spawning
 restricted to stream
 edges. Stream narrow
 and overhung with brush
 and is difficult
 walking. 6" gravel.

All three
 forks have good
 IT gravel.
 2-4" and some
 6-8".

25 pinks →

Not much. 4' wide
 and ends at the treeline.

③ Largest of
 the three
 branches.

②
 ← Smallest
 of the 3
 branches

Name N. Hd. Walker Cove Catalog No. 101-71-25
Latitude N 55° 45' 46" WR No. 39C
Longitude W 130° 42' 27" K No. 43B
Geodetic Map No. Ketchikan D-3 Work Area Ketchikan
Location Walker Cove N. Head Watershed Length 3 miles
Drainage Area of Watershed 4.5 sq. miles
Water Supply Type Small early snowfields and one small lake, ground water, precipitation.
Trails & Survey Routes Although banks are extremely brushy streambed can be walked easily on normal or lower water levels. Barrier falls reported .8 miles from Str. mouth.
Aerial Survey Notes Stream has light colored bottom and clear water but is so small that much of stream is screened by tree and brush cover.
Anchorage At drop off in stream mouth.

Tide Stage When Surveyed 2/3 flood.

FISHERY RESOURCES

Commercial Fisheries Pink, chum and coho.

Escapement High historic 1972 - 26,000

Spawning area 3532 m². (4224'x15'x60% ASA)

Species Composition 80% pink, 15% chum, 5% other

Timing Middle - August, September

Schooling areas Upper intertidal

Shellfish Potential Dungeness crab at dropoff.

Sport Fisheries None

Land Use at Present None

History of Land Use Unknown

Rehabilitation Potential None needed for increased fish production on lower stream. Feasibility of laddering, barrier falls could be examined.

Soils Glacial till - stable.

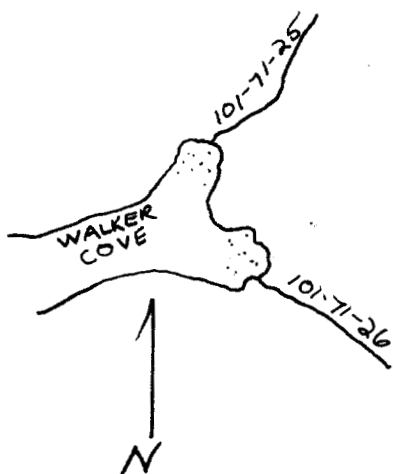
GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	20 pk & ch.
	Number of droppings	1
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	1
Tide flats -	Estimate length along beach	300 yds
	Estimate depth out from beach	100 yds
	Eel grass present on what percent of flats	0

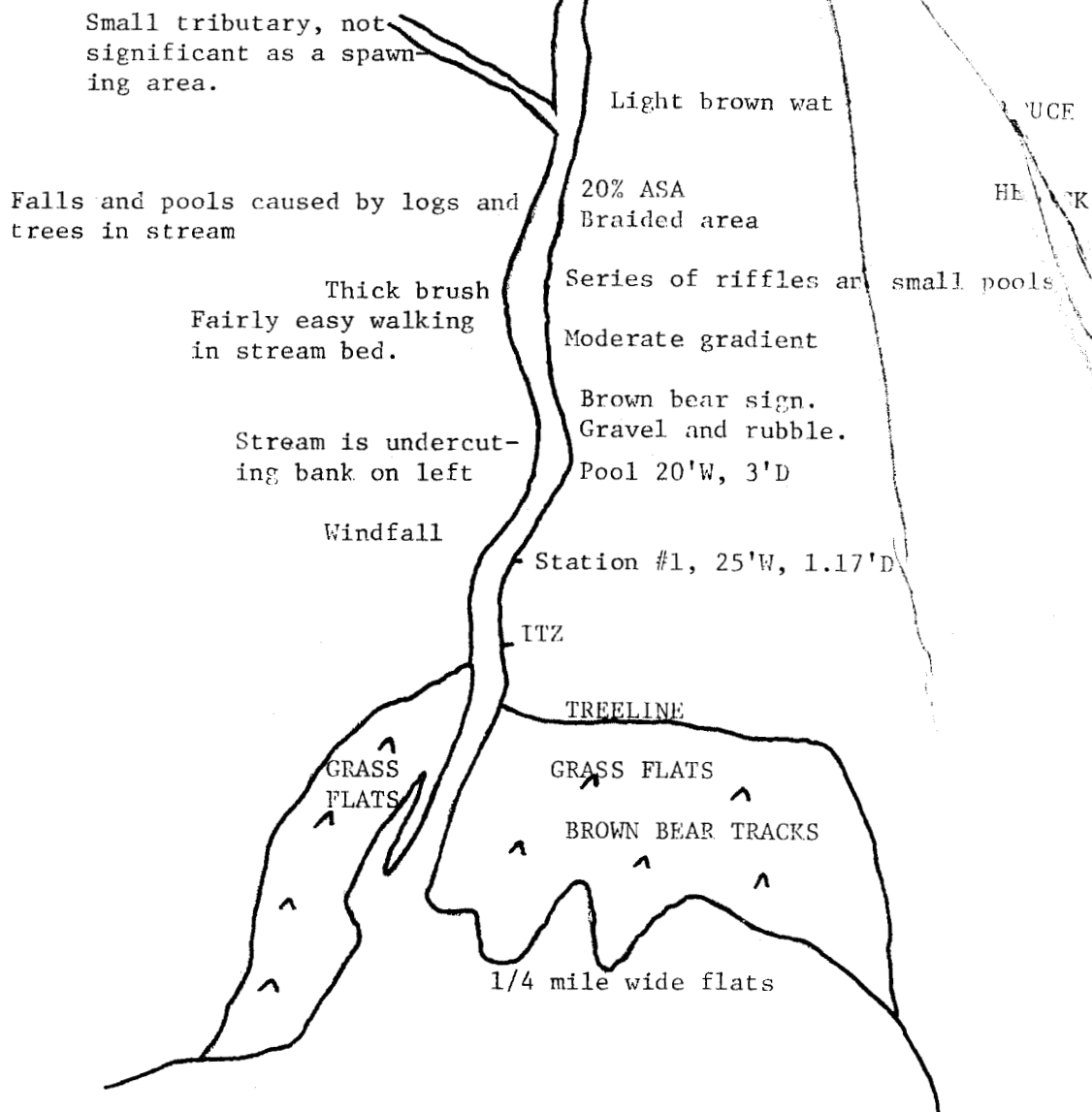
PEAK ESCAPEMENT RECORD

Walker Cove N. head
101-71-25

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
9-20-40	3,000	1,000		Fair.
9-29-41	2,750	250		Poor.
9-21-42	6,500	500		Excellent.
7-3-63				None observed. I.T.
7-8-64				Good visibility.
8-16-65				Good visibility.
7-27-70				3-4000 @ mouth.
7-19-71				50 pinks @ mouth.
7-24-72	26,000	few		3 schools @ mouth. Vis. fair.
8-15-74	900			Good visibility.
8-18-75	2,400	10%		1000 @ I.T., 3000 @ mouth. 5-7000 along north bank in stream.
- 244 -				



101-71-26
 101-31-75
 Lowney, R. Larson, Ward



Name _____ Catalog No. 101-71-26
Latitude N 55° 45' WR No. 43A
Longitude W 130° 42' K No. 39A & B
Geodetic Map No. Ketchikan D-3 Work Area Ketchikan
Location Rt. head stream of Walker Cove Watershed Length 3.0 miles
Drainage Area of Watershed 7.5 sq. miles
Water Supply Type Early snow fields and precipitation fed.

Trails & Survey Routes This stream can be fairly easily walked in the streambed.

Aerial Survey Notes This stream has good visibility and the valley has adequate width to permit aerial survey.

Anchorage Anchor off the mouth of the stream.

Tide Stage When Surveyed 2nd half of flood.

FISHERY RESOURCES

Commercial Fisheries Pink, chum

Escapement High escapement - 1973 - 7100 Spawning area = 2439 m²
(3500'L x 25'W x 30% ASA) No barriers reached to 3500 feet.

Species Composition Unknown

Timing Middle - August, September.

Schooling areas There is some schooling area in the area just below the high tide mark and in some small pools in the lower stream.

Shellfish Potential Dungeness crab sampled off mouth of stream.

Sport Fisheries Cutthroat - Dolly Varden

Land Use at Present None

History of Land Use Unknown

Rehabilitation Potential Rehabilitation not needed to increase fish spawning area.

Soils The stream is undercut and steep valley sides create potential for further erosion. Glacial valley.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	2
	Fresh brown bear tracks	
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	600 yds.
	Estimate depth out from beach	250 yds
	Eel grass present on what percent of flats	3%

STREAM INVENTORY FORM

Observers: Downey, Ward, R. Larson

Date: 7-31-75

Temperature: 50°

Weather: Overcast

Name: _____

Number: 101-71-26

Station No.

1

Pool Size/Type

3/1

Riffle Type

Width-Depth

25'W

1.17'D

Pool Riffle

Frequency

3

Bottom Type

(Riffle)

4

Color/Turbidity

1/1

Velocity

2

Flow (C.F.S.)

112

Temp. (°F.)

44°

pH

4.5

Fry Abundance

Benthos

Sample No.

Higher Plant

Class

1

Aquatic Veg.

Density

Ident.

(1) Mosses

(2) Algae

2

2

General Remarks (rehab., land use, barriers, log jams, etc.):

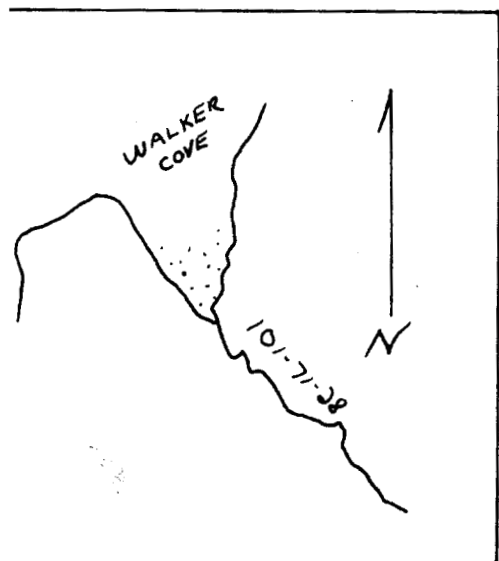
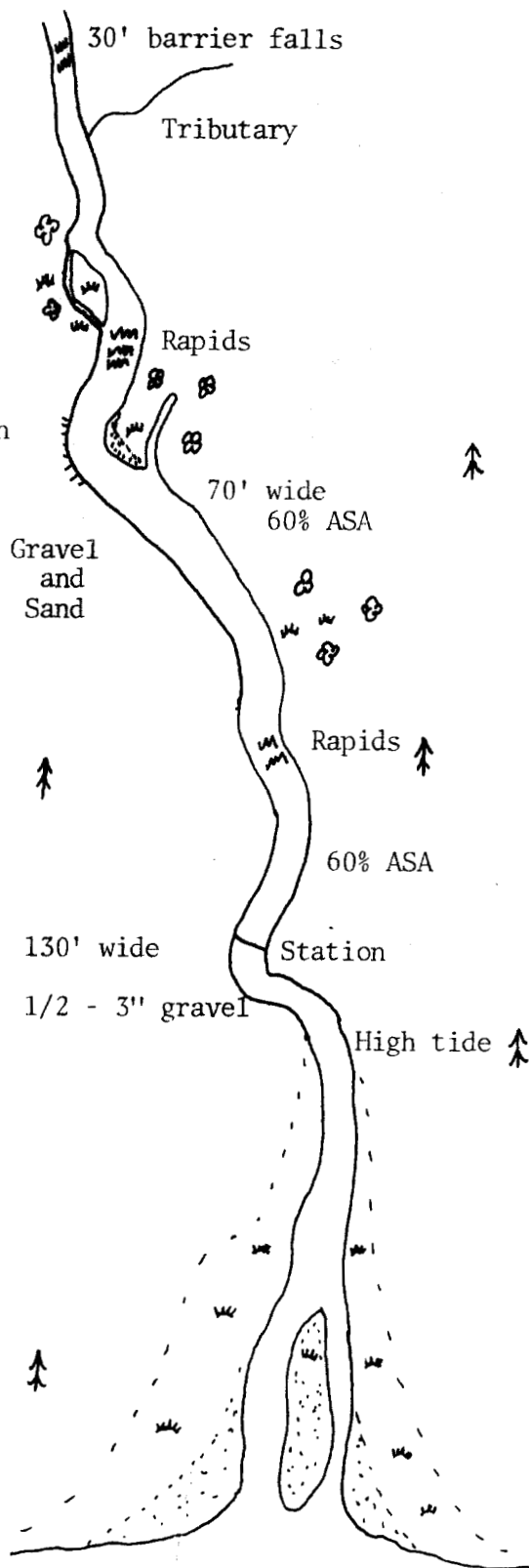
PEAK ESCAPEMENT RECORD

Walker Cove So. head
101-71-26

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
10-10-28		3,000	7000 coho	
9-20-40	2,000	1,000		Poor
9-25-41	1,500	500		Poor
9-21-42	7,200	6,300		Excellent
9-26-47	50	700		
10-11-48	300	2,500		Good
9-4-54	4,000		Some fresh coho.	Some chum.
9-10-55	400			
8-3-62	8,500			Most schooled.
7-27-70				Vis. excellent.
8-11-71				None observed.
7-24-72				4000 @ mouth & I.T. Vis. fair.
8-17-73	7,100			Visibility good.
8-15-74		6,000		Visibility good.
8-18-75	1,500			300 @ I.T., 2000 @ mouth. Vis. excellent.
- 248 -				

101-71-28
Walker Creek
7-31-75
Downey, Larson

1.3 miles from
high tide



Name: Walker Creek Catalog No: 101-71-28
Latitude: 55° 43' 35" Former Stream No: WR 39
Longitude: 130° 45' 06" K 43
Geodetic Map No: Ketchikan C-3 Work Area: Ketchikan
Location: South shore Walker Cove. 2.8 Watershed Length: 13 miles includ.trib.
miles from head. Drainage Area: 25 sq. miles
Water Supply Type: _____

Trails & Survey Routes: Easily walked during periods of normal water levels. No recorded trails.

Aerial Survey Notes: Excellent visibility. Stream is broad with a light colored bottom and little overhead cover.

Anchorage: Good anchorage in bight off stream delta.

Tide Stage when Surveyed: High.

RESOURCES

COMMERCIAL FISHERIES (species, escapement, timing, spawning area):

Pink, chu, coho. Red and king salmon also reported. Excellent spawning facilities.
23,000 1974; 30,000 1956 peak counts. Major spawning area begins above high tide mark.
Long intertidal area .9 miles.

Spawning area: 15,607 m² (4000'x70'x60% ASA)

Schooling Areas: In pools above rapids in first section of stream above high tide area.

Spawning Areas: Major spawning area begins .5 miles above high tide mark.

SHELLFISH POTENTIAL: Unknown. Probably dungeness crabs.

SPORT FISHERIES: Steelhead reported.

LAND USE (history, present, proposed): History unknown.

REHABILITATION POTENTIAL: Feasibility of laddering falls should be explored.

SOILS: Stable.

GAME RESOURCES (species, use, habitat): 15 geese seen on tide flats. Two bald eagles, 20 seals at mouth of stream.

STREAM INVENTORY FORM

Observers: Downey, Larson

Date: 7-31-75

Name: Walker Creek

Temperature: _____

Number: 101-71-28

Weather: _____

Station No.

Pool Size/Type

Riffle Type
Width-Depth

Pool Riffle
Frequency

Bottom Type
(Riffle)

Color/Turbidity

Velocity

- Flow (C.F.S.)

- Temp. (°F.)

pH

Fry Abundance

Benthos
Sample No.

Higher Plant
Class

Aquatic Veg.
Density
Ident.

(1) Mosses
(2) Algae

1															
3/1															
131'W 1'D															
3															
4															
1/1															
2															
470															
46° (58° 7-30-52)															
5															
-															
-															
1															
2															
2															

General Remarks (rehab., land use, barriers, log jams, etc.): Larger type system. Excellent spruce along lower stream. Nice grass flats.

PEAK ESCAPEMENT RECORD

Walker Creek
101-71-28

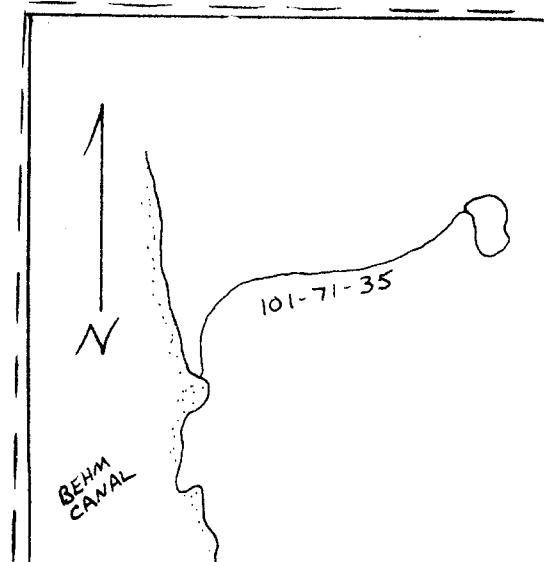
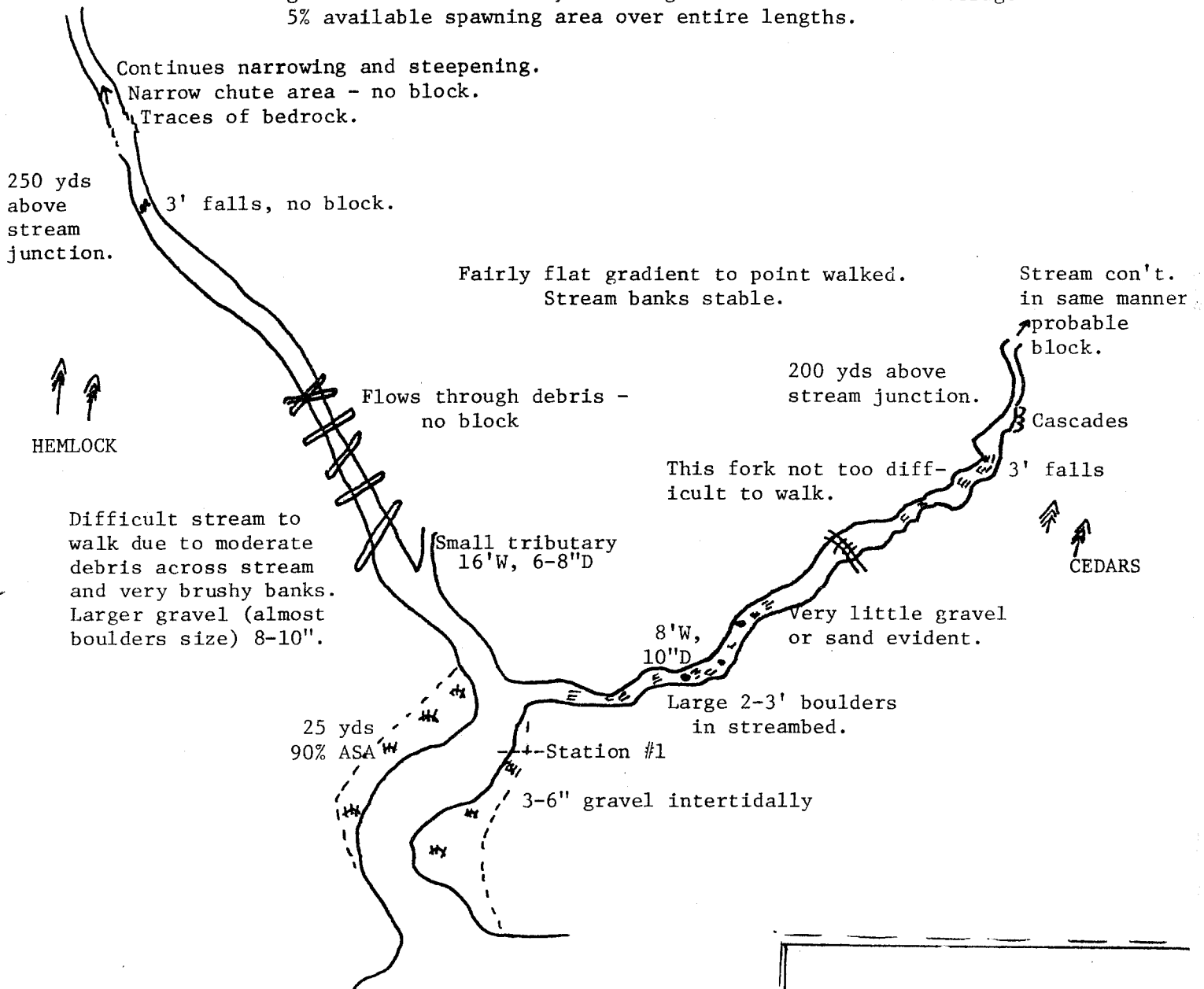
DATE	PINK	CHUM	OTHER SPECIES	REMARKS
10-10-28	7,000		3 coho	
8-16-33	10,000			Few chum
7-15-37				10,000 fish in stream.
9-15-38	1,000	1,000		
9-20-40				Poor pink showing. Water high.
8-10-41	6,000	250		Poor.
9-20-42	3,000	500		Fair.
9-26-47	30	1,000		.3 mile surveyed. Fair.
9-4-48				Chum, pink, fair.
9-2-51	8,200	150	2 red, 1 dead king	1,500 dead pink, few dead chum.
8-10-52	17,700			Few chum. 90% schooled.
8-1-53	3,750	210	1 red	
8-23-54	9,000	2,500		Some dead pink, chum.
8-12-55	4,500			Some chum.
7-29-56	30,000			Some fish at mouth.
9-24-57		15,000		No pink observed. 5,000 chum @ mouth. (8-11 1500 pink)
9-1-60	300	100	20 king	(600 pink 7-30)
7-27-62	4,200			All spawning.
8-19-63	2,100			Visibility good.
7-30-64	16,000	2,000		
8-16-65	700			Visibility good.
7-25-66	7,700			Good vis. Fish schooled in upper stream.
8-21-67	250			Visibility fair.
7-29-68	18,700	300		Fish largely schooled. Vis. ex.
8-1-69	175			500 @ mouth. Visibility fair.

PEAK ESCAPEMENT RECORD

Walker Creek
101-71-28

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
8-4-70	11,400			Vis. fair to good.
8-11-71	1,700			Visibility fair.
7-31-72	27,700			Vis. excellent. 4000 chum 8-9.
8-15-74	19,000			4000 dead. Visibility good.
8-18-75	13,000	(2000+ 9-23)		Vis. excellent. 700 I.T.

Both stream have large boulders in streambed and much large gravel - 2-8" with very little gravel less than 2". Average 5% available spawning area over entire lengths.



Name _____ Catalog No. 101-71-35
Latitude N 55° 37' 07" WR No. _____
Longitude W 130° 52' 58" K No. _____
Geodetic Map No. Ketchikan - Work Area Ketchikan
Location Behm Canal E. Shore 4.2 mi N. Pt. Eva Watershed Length _____
Drainage Area of Watershed 2.1 sq. miles
Water Supply Type Precipitation, small lake on left fork.

Trails & Survey Routes Streambed easily walked intertidally but becomes difficult on both forks because of moderate debris across stream and brushy banks.

Aerial Survey Notes The stream is too small and the tree cover too thick for an aerial survey but the intertidal zone could be easily done because of light colored bottom and no cover
~~XXXXXXXXXX~~

ANCHORAGE: Very poor adjacent to creek. Anchor large craft in Manzanita or Rudyerd Bay.
Tide Stage When Surveyed 1/2

FISHERY RESOURCES

Commercial Fisheries Pink (probably)

Escapement Spawning area = 2132 m²
(1275' L x 20'W x 90% ASA)

Species Composition Unknown

Timing Unknown

Schooling areas Unknown

Shellfish Potential None

Sport Fisheries None

Land Use at Present None

History of Land Use Unknown

Rehabilitation Potential None

Soils Rocks covered with thin layer of moss and topsoil (stable).

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	0
	Estimate depth out from beach	0
	Eel grass present on what percent of flats	0

STREAM INVENTORY FORM

Observers: Downey, R. Larson

Date: 7-31-75

Temperature: 54°

Weather: Overcast

Name: _____

Number: 101-71-35

Station No.

1

Pool Size/Type

2/1

Riffle Type

25'W

Width-Depth

1'D

Pool Riffle

Frequency

3

Bottom Type

(Riffle)

4

Color/Turbidity

1/1

Velocity

2

Flow (C.F.S.)

17.1

Temp. (°F.)

48°

pH

4.5

Fry Abundance

Benthos

Sample No.

Higher Plant

Class

2

Aquatic Veg..

Density

2

Ident.

(1) Mosses

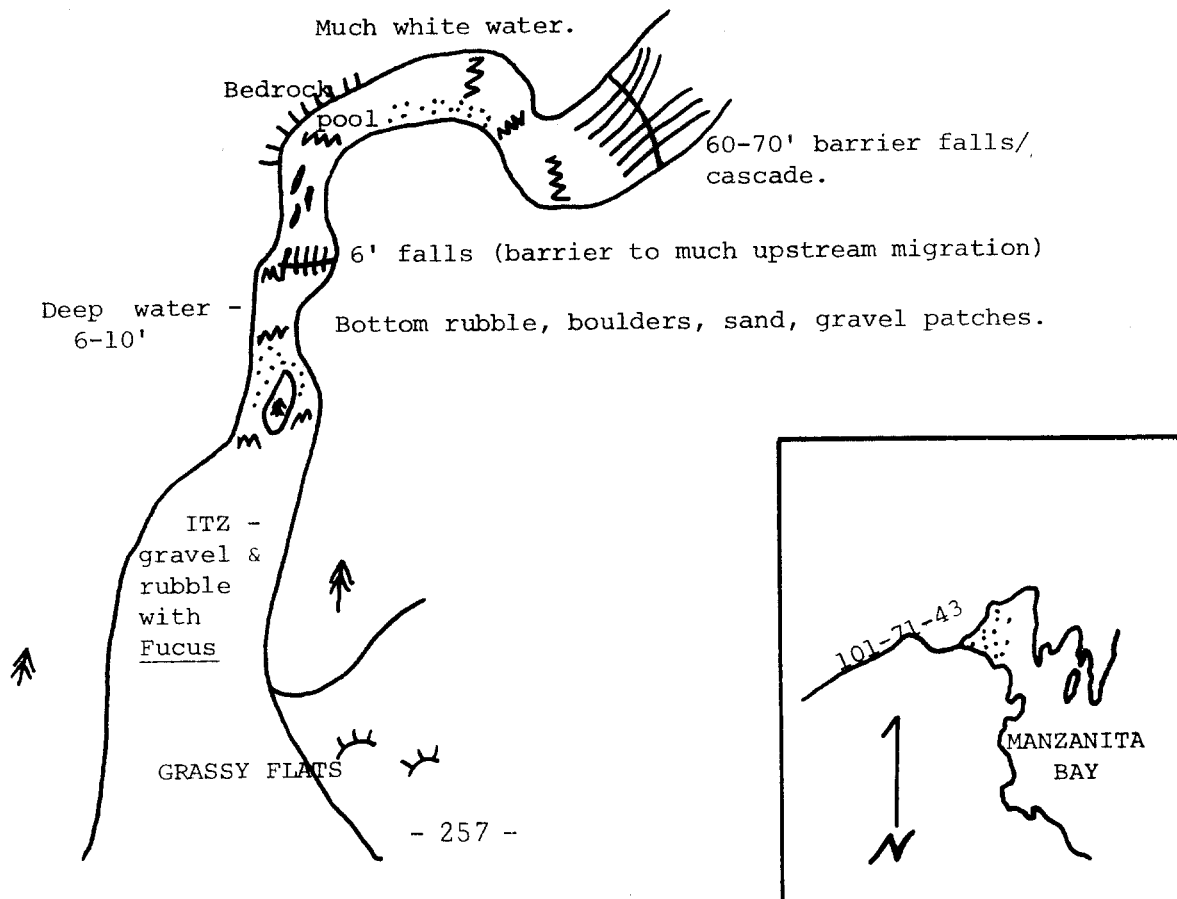
(2) Algae

2

General Remarks (rehab., land use, barriers, log jams, etc.):

Manzanita Creek
101-71-43
6-7-76
Jackinsky

TIDE AT TIME OF SURVEY: High
TREES: Cedar, spruce
WATER: Clear, colorless
BANKS: Grassy, stable (bedrock and boulders)
SLOPE: Moderate to steep
FLOW: Torrential
SPAWNING AREA: 5% or less in stream (1/4 mile).
Most spawning in ITZ.



Name: Manzanita Creek Catalog No.: 101-71-43
Latitude: 55 35' 46" WR No.: 74
Longitude: 130 58' 37" K No.: 74
Geodetic Map No.: Ketchikan D-3 Work Area: Ketchikan
Location: W. side E. Behm Canal head Watershed Length: 16 miles (both arms lake)
Manzanita Bay. Drainage Area: 77 sq. miles
Water Supply Type: 1600 acre lake and tributary system fed by precipitation.

Trails & Survey Routes: The creek can be walked to the barrier falls and there is a trail to the lake from both the gaging station at the mouth and from the cabin on beach.

Aerial Survey Notes: The intertidal area can be surveyed at low tide but the remainder of the stream has too dark of a bottom to be satisfactorily done by air.

Anchorage: There is an anchor bouy in the bay.

Tide Stage when Surveyed: 2/3 flood.

FISHERY RESOURCES

Commercial Fisheries: Spawning facilities restricted to upper intertidal and short upstream section below barrier falls. Major species is pink, chum also utilize stream.

Escapement: 9-27-49 4,000 pink, 1,000 chum.

Spawning area: 2954 m² (100'x1320'x5% ASA) ITZ (140'x600'x30% ASA)

Species Composition: Chums compromise between 2 and 25% of total run, pinks the remainder with few cohos.

Timing: Late - September, October. Some fish present by end of August.

Schooling Areas: Pools in the upper intertidal zone.

Shellfish Potential: Good dungeness crab fishing and clam digging in Manzanita Bay.

Sport Fisheries: Excellent trout fishing in lake.

Land Use at Present: Recreation.

History of Land Use: Unknown.

Rehabilitation Potential: Has barrier falls which should be examined.

Soils: Stable.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	
	Number of droppings	
Geese -----	Number seen on tide flats	
	Number seen up creek	
	Number of broods seen	
Mallards ---	Number seen on tide flats	7
	Number seen up creek	
	Number of broods seen	
Mergansers -	Number of broods seen	
Bald Eagles-	Number seen along creek	1
	Number of nests seen and location	
Seals -----	Number seen at mouth	
Tide flats -	Estimate length along beach	
	Estimate depth out from beach	
	Eel grass present on what percent of flats	

Name: Manzanita CreekDate: 8-20-75Temperature: 61Number: 101-71-43Weather: Overcast

Station No.

1

Pool Size/Type

2/1

Riffle Type
Width-Depth145'W
1.7'DPool Riffle
Frequency

3

Bottom Type
(Riffle)

4

Color/Turbidity

2/2

Velocity

2

Flow (C.F.S.)

498 (1) 10 year average
454 (cfs)

Temp. (°F.)

57

pH

5

Fry Abundance

Benthos
Sample No.Higher Plant
Class

1

Aquatic Veg.
Density
Ident.

3

(1) Mosses
(2) Algae

2

General Remarks (rehab., land use, barriers, log jams, etc.): Fish present in IT zone, but could not estimate number accurately.

PEAK ESCAPEMENT RECORD

Manzanita Bay
101-71-43

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
9-26-46				Fair.
8-21-47				None observed.
9-27-49	4,000	1,000		
9-16-52	300	8		
8-31-53	47	110		
8-9-57	1,900	200		
8-8-63				Vis. good. None obs. I.T.

- 260 -

Cut Bank Creek
 101-71-44
 8-20-75
 Downey, R.Larson

Continues steeply,
 lots of logs in
 stream. Couple
 small falls through
 debris.

stopped 200 yds above treeline

Steepens, small rapids, large
 boulders.

Small, 1' falls

Lots debris, no
 block.
 200 yds. to junction
 of Manzanita River.

Large gravel here
 4" - 10"

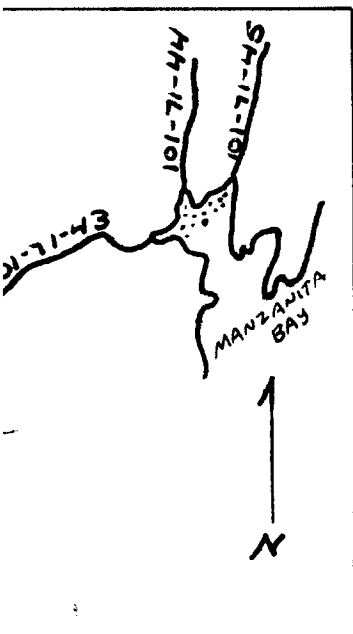
Cut bank and bedrock

Smaller,
 sandier
 gravel in
 I.T.

Small stream, short lived
 with some spawning area but
 not much really.

15% ASA

No fry or adults seen.



Name Cut Bank Creek Catalog No. 101-71-44
 Latitude _____ WR No. _____
 Longitude _____ K No. _____
 Geodetic Map No. Ketchikan C-3 Work Area Ketchikan
 Location Manzanita Bay - Back Behm Canal Watershed Length 2.25 miles
 Drainage Area of Watershed _____
 Water Supply Type Precipitation, runoff; possibly springs.

Trails & Survey Routes No established trails - walk in the stream.

Aerial Survey Notes Too small with overstory to aerial survey.

Anchorage Buoy in Manzanita Bay.

Tide Stage When Surveyed 1/3 flood tide.

FISHERY RESOURCES

Commercial Fisheries Unknown

Escapement 0 adults on 8-20-75.

(900' x 25' x 15% ASA) Spawning area = 314 m².

Species Composition Unknown

Timing Unknown

Schooling areas Off the mouth

Shellfish Potential Good - extensive flats here. Good crab fishing and shellfish.

Sport Fisheries None - pretty small

Land Use at Present None

History of Land Use None

Rehabilitation Potential None - too small

Soils Stable to the point walked.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Pald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	-
	Estimate depth out from beach	-
	Eel grass present on what percent of flats	-

STREAM INVENTORY FORM

Observers: Downey, R. Larson

Date: 8-20-75

Name: Cut Bank Creek

Temperature: 61°

Number: 101-71-44

Weather: Overcast

Station No.

1

Pool Size/Type

1/2

Riffle Type
Width-Depth

25'W
.7'D

Pool Riffle
Frequency

3

Bottom Type
(Riffle)

4

Color/Turbidity

1/1

Velocity

2

Flow (C.F.S.)

19.3

Temp. (°F.)

51°

pH

4

Fry Abundance

Benthos
Sample No.

Higher Plant
Class

1

Aquatic Veg.
Density

3

Ident.

(1) Mosses

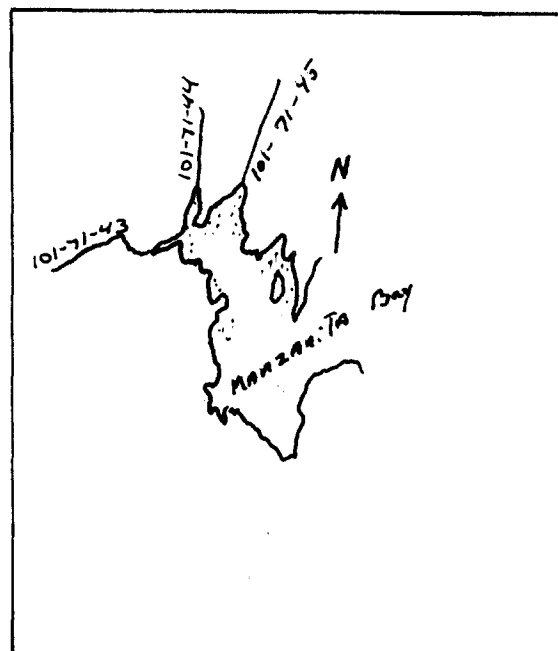
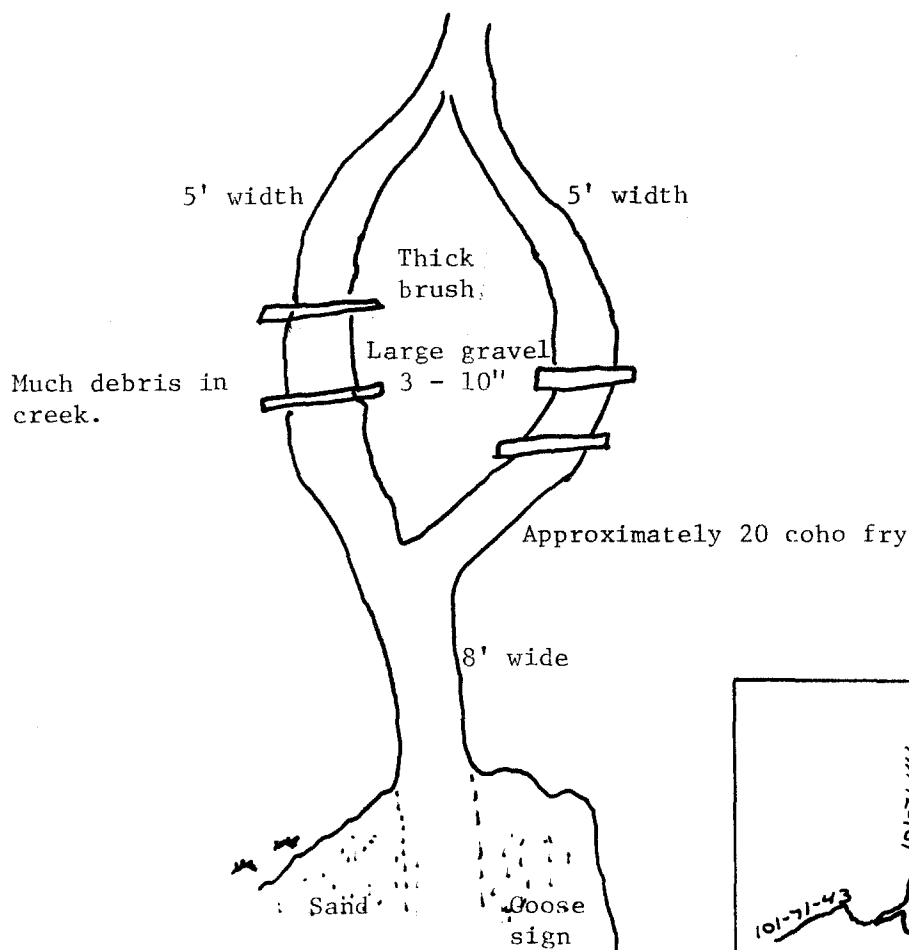
(2) Algae

2

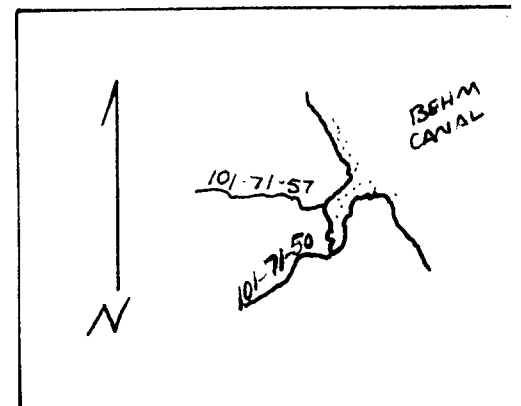
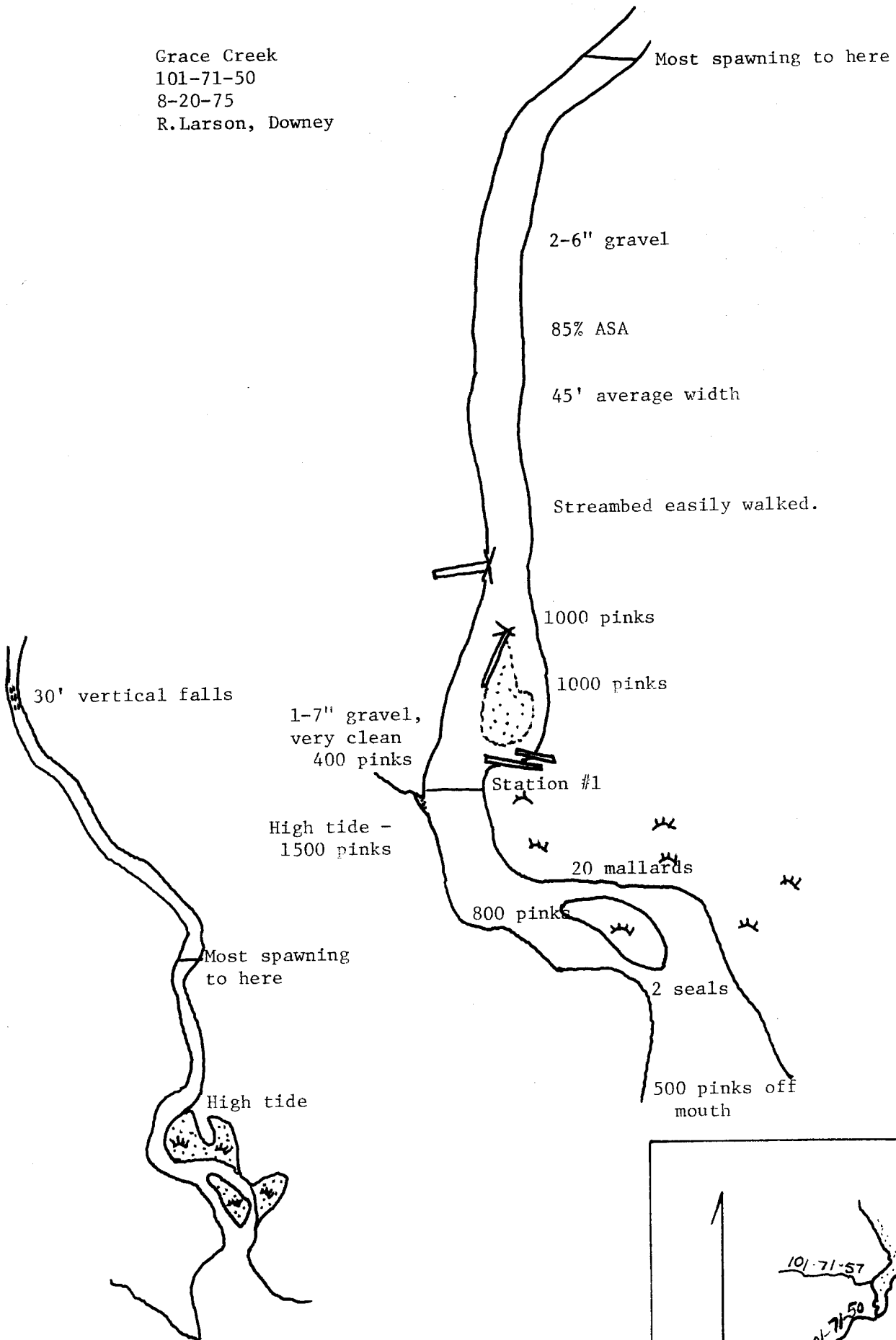
General Remarks (rehab., land use, barriers, log jams, etc.):

Northeast Head Manzanita Bay
101-71-45
R. Larson
8-75

This is a very small stream with limited potential but is large enough to support small populations of both pinks and coho. It has 20% ASA but with considerable debris present in the creek and 3-10" gravel. It has a drainage length of 1 mile and the water is clear. No past records have been found that mention this stream. Limited spawning and rearing area available.



Grace Creek
101-71-50
8-20-75
R.Larson, Downey



Name Grace Creek Catalog No. 101-71-50
 Latitude N 55° 35' 46" WR No. 75
 Longitude W 130° 58' 37" K No. 75
 Geodetic Map No. Ketchikan C-3 Work Area Ketchikan
 Location W. side E. Behm C., 4.2 mi. SW Ledge Watershed Length 16 miles major trib.
 Drainage Area of Watershed 53 sq. miles
 Water Supply Type Early snowfield, precipitation fed with 1,700 acre lake.

Trails & Survey Routes Stream is easily walked at normal water levels to the barrier falls. There is also a forest service trail that leads to the lake.

Aerial Survey Notes Visibility is generally good but stream should be walked prior to the aerial survey to become knowledgeable of schooling area for accurate enumeration.

Anchorage An exposed anchorage in mouth of stream at drop off.

Tide Stage When Surveyed 2/3 flood.

FISHERY RESOURCES

Commercial Fisheries Pink & chum. Few coho adults observed in past years, most spawning occurs in first .3 miles above high tide.

Escapement 8,000 9-1-64. 4,500 pinks 8-20-75. High Historic: 9-49, 31,000 pink, 8,000 chums. Spawning area = 8410 m². (850' x 50' x 60% ASA) upstream: (1700' x

Species Composition 80% pink, 19% chum, 1% other 45' x 85% ASA)

Timing Middle - August, September.

Schooling areas at mid-intertidal.

Shellfish Potential Unknown

Sport Fisheries Trout in lake and creek.

Land Use at Present Sports fishing.

History of Land Use Unknown

Rehabilitation Potential Is a barrier falls that should be examined.

Soils Upper streambanks are steep and lower stream banks are low and broad. They seem quite stable.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	1 bear sighted.	0
	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	20
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	2
Bald Eagles-	Number seen along creek	4
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	2
Tide flats -	Estimate length along beach	0
	Estimate depth out from beach	0
	Eel grass present on what percent of flats	0
(1 brood harlequin ducks)		

STREAM INVENTORY FORM

Observers: R. Larson - Downey

Date: 8-20-75

Name: Grace Creek

Temperature: 61°

Number: 101-71-50

Weather: Overcast

Station No.

1

Pool Size/Type

2/1

Riffle Type

61'W

Width-Depth

1.6'D

Pool Riffle

Frequency

3

Bottom Type

(Riffle)

4

Color/Turbidity

1/1

Velocity

2

Flow (C.F.S.)

250

(1) 400 cfs Water powers Southeast Alaska
10 year average

Temp. (°F.)

58°

pH

5

Fry Abundance

Benthos

Sample No.

Higher Plant

Class

1

Aquatic Veg.

Density

3

Ident.

(1) Mosses

(2) Algae

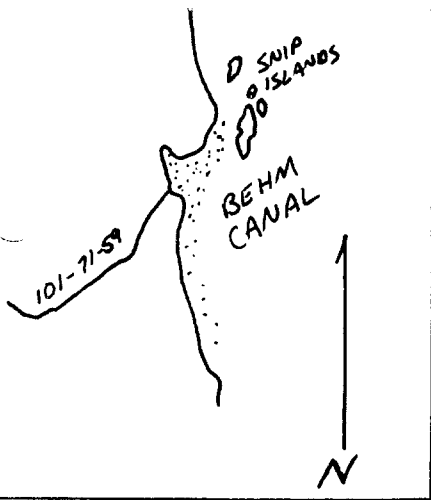
2

General Remarks (rehab., land use, barriers, log jams, etc.):

PEAK ESCAPEMENT RECORD

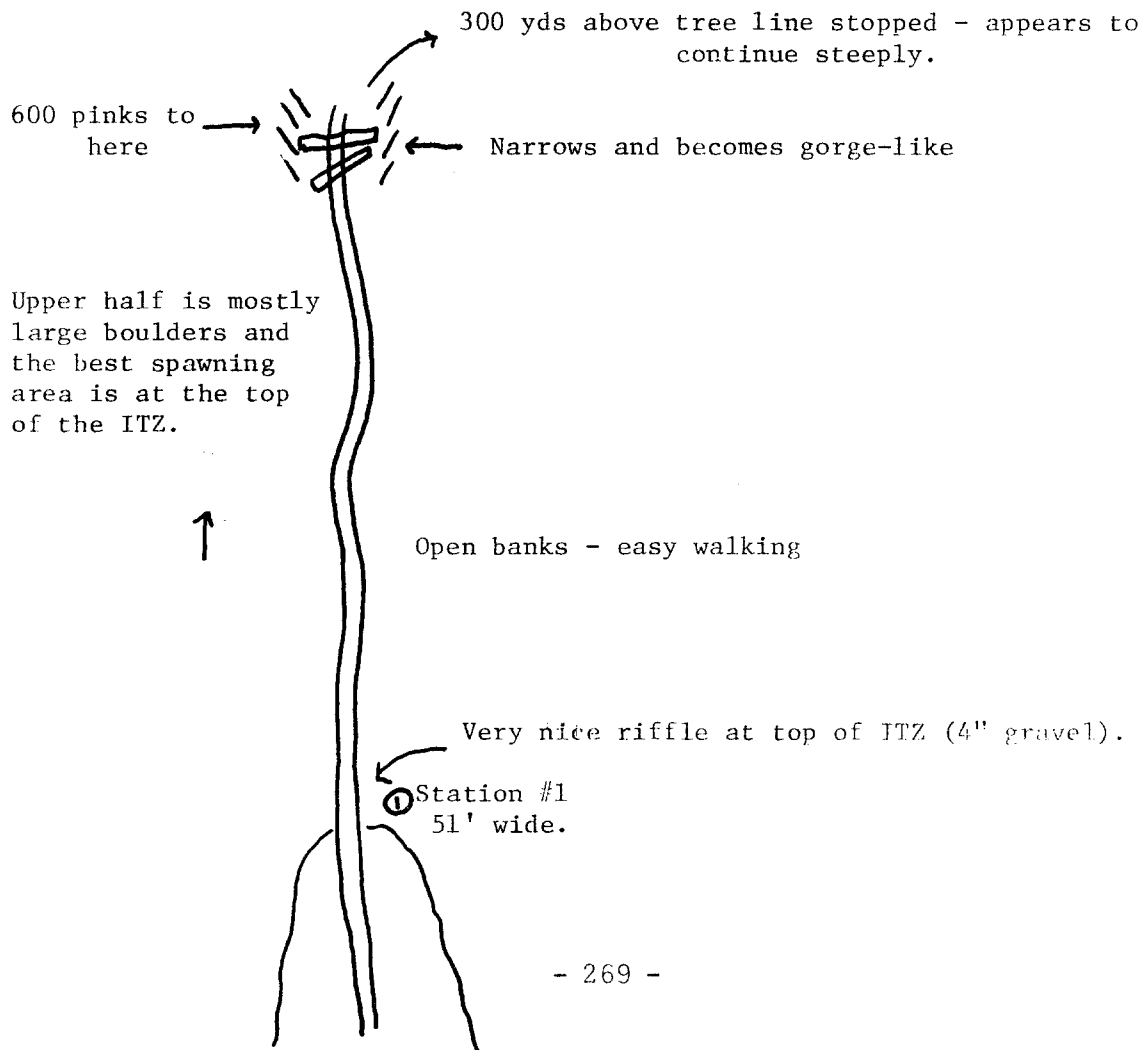
Grace Creek
101-71-50

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
7-31-37				None observed.
9-25-47	3,000	3,000		Excellent
9-17-49	16,000	2,000		15,000 dead pink. (5000 live and 3000 dead chum on 10-3)
9-1-50	11,000	200		400 dead pinks. (9000 chum 9-13)
9-15-51	19,600	1,800		2700 dead pinks.
8-26-52	9,190	150		165 dead pink. 20 dead chum. (950 chum 9-3)
8-31-53	3,900	1,400	2 red	
9-4-54	27,000	2,500		
9-15-55	3,500	1,500		
9-16-56	10,000	6,000		1,000 chum at mouth.
8-20-57	10,000	3,000		
8-20-60				Fish present. Water high & dark.
9-8-61				Fish present.
8-30-62	500			Visibility good.
7-16-63				Visibility excellent.
9-1-64	8,000	4,000		50 @ mouth. Many new fish. Pinks and chums spawning.
8-26-65	200			
8-29-66	560			Estimate 600 dead.
8-27-68	1,500	few		Many carcasses (2000+) in stream.
9-5-69				200 @ mouth. Visibility excellent.
7-31-72	800	100		Visibility good.
8-20-75	3,500			1500 @ IT. 2-3 small schools @ mouth.



Gorge Creek
101-71-59
8-20-75
Downey - R. Larson

20% Available Spawning Area



Name Gorge Creek Catalog No. 101-71-59
 Latitude N 55° 41' 04" WR No. None
 Longitude W 130° 58' 12" K No. None
 Geodetic Map No. Ketchikan C-3 Work Area Ketchikan
 Location Back Behm Canal 1/2 mile S.W. of Ship Is. Watershed Length 5.75 miles
 Drainage Area of Watershed _____
 Water Supply Type Precipitation, runoff; possible springs.

Trails & Survey Routes No established trails - all open, walk in the stream.

Aerial Survey Notes Pretty open - should be able to aerial survey easily.

Anchorage Buoy in Manzanita Bay.

Tide Stage When Surveyed 3/4 flood tide.

FISHERY RESOURCES

Commercial Fisheries Unknown

Escapement 600 pinks on 8-20-75. Spawning area = 836 m².
(900' x 50' x 20% ASA)

Species Composition Unknown

Timing

Schooling areas Off the mouth - not much pool area in the stream.

Shellfish Potential None - IT is very rocky

Sport Fisheries None - too small

Land Use at Present None

History of Land Use None

Rehabilitation Potential None

Soils Stable to point walked.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	<u>several</u>
	Number of droppings	<u>"</u>
Geese -----	Number seen on tide flats	<u>0</u>
	Number seen up creek	<u>0</u>
	Number of broods seen	<u>0</u>
Mallards ----	Number seen on tide flats	<u>0</u>
	Number seen up creek	<u>0</u>
	Number of broods seen	<u>0</u>
Mergansers -	Number of broods seen	<u>0</u>
Bald Eagles-	Number seen along creek	<u>4</u>
	Number of nests seen and location	<u>0</u>
Seals -----	Number seen at mouth of stream	<u>0</u>
Tide flats -	Estimate length along beach	<u>-</u>
	Estimate depth out from beach	<u>-</u>
	Eel grass present on what percent of flats	<u>-</u>

STREAM INVENTORY FORM

Observers: Downey, Larson (—)

Date: 8-20-75

Name: Gorge Creek

Temperature: 61°

Number: 101-71-59

Weather: Overcast

Station No.

1

Pool Size/Type

3/1

Riffle Type
Width-Depth

Pool Riffle
Frequency

3

Bottom Type
(Riffle)

4

Color/Turbidity

1/1

Velocity

2

Flow (C.F.S.)

84.7

Temp. (°F.)

48°

pH

5

Fry Abundance

Benthos
Sample No.

Higher Plant
Class

1

Aquatic Veg.
Density

3

Ident.

(1) Mosses

(2) Algae

2

General Remarks (rehab., land use, barriers, log jams, etc.): 4 eagles

PEAK ESCAPEMENT RECORD

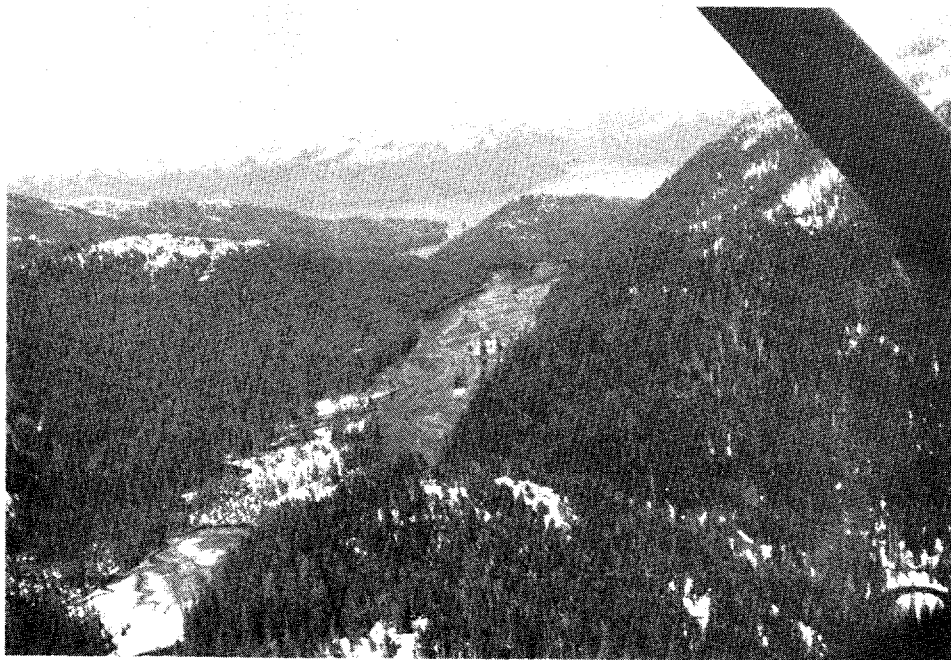
101-71-59

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
9-27-47	75	25	4 coho	200 off mouth.
9-15-51	850	10		35 dead pink, 5 dead chum.
8-8-52	185			
7-29-53				Very few fish showing.
8-20-75	400			200 @ I.T.

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Portage Cove flats
101-71-63



ITZ Portage Cove
6-1-76



Portage Cove forks looking upstream.



Portage Cove lower creek at station looking downstream.

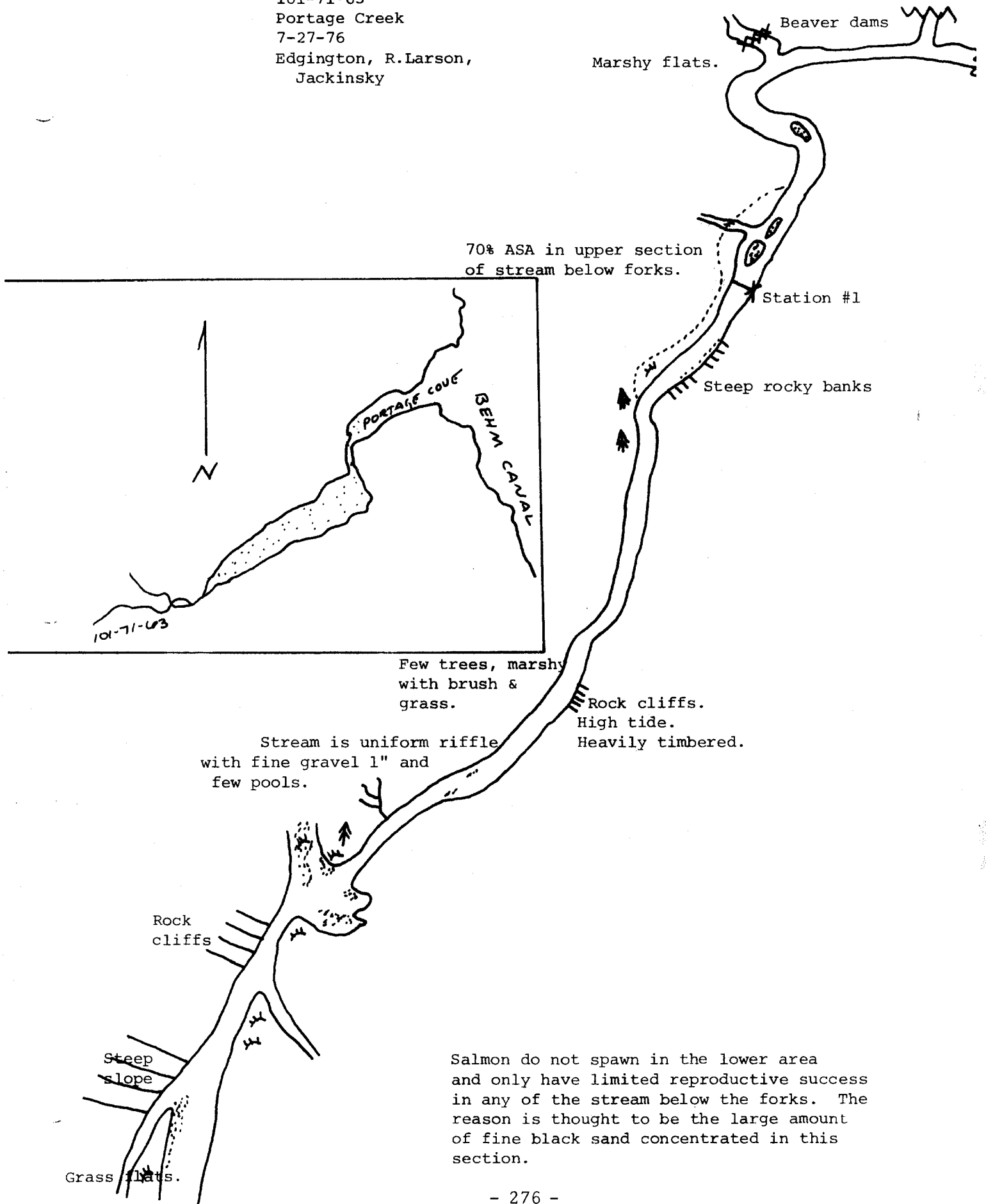


Portage Cove north fork station



Portage Cove south fork at station looking upstream.

101-71-63
 Portage Creek
 7-27-76
 Edgington, R.Larson,
 Jackinsky



Salmon do not spawn in the lower area and only have limited reproductive success in any of the stream below the forks. The reason is thought to be the large amount of fine black sand concentrated in this section.

PORTAGE

Continues less steeply for a short distance before leveling off into a broad valley.

Stream enters canyon with very steep high banks, gradient increases & rapids. Falls rapidly. Fish do not pass this section.

Swift water. Rapids with few pools.

Rapids

3' fall 35% ASA

PORTAGE #3

Log jam

Sand and gravel banks undercut, mossy stable. Some small pools

Snow on banks - 3-4'

Station #3

Flows through valley 100 yds wide.

70% ASA

Landed helicopter here.

Pool 6' D

No fry.

Heard a hooter, saw a dipper.

Good spawning, poor rearing.

Big windfall

Stream gradient increases

Rapids

Very large Spruce. Alders

Station #3

Alders 65% ASA

Beautiful gravel at 1st glance, 1/2-3", considerable amount of fine black sand in gravel in quieter areas.

Steep slope

70% ASA

Big spruce in valley. Alders near stream.

Alders

Excellent riffle

Pool

70% ASA

Very large spruce trees, widely scattered.

Small tributary iron colored.

30% ASA

Station #1

65% ASA

1-3" gravel, considerable fine sand

PORTAGE #1

Steep, moss covered gravel banks. Rapids. Little brush much snow 3-4'.

Large spruce.

75% ASA

2-10" coarse gravel.

Small tributary, iron colored.

Station #1.

Black sand on beach and in back water.

Alder scrub.

Very little sign of flooding.

Continues steeply for a short distance then spreads out into the valley.

Heavy rapids.

Swift riffles- 1.5' D., rubble.

30% ASA

Coarse gravel, swift riffles. 3'D. pool

30% ASA

Name: Portage Creek Catalog No.: 101-71-63
Latitude: 55 46' 19" WR No.: 77
Longitude: 131 02' 51" K No.: K77
Geodetic Map No.: Ketchikan D-4, C-4 Work Area: Ketchikan
Location: Behm Canal, Portage Cove, " Watershed Length: 10 miles.
Opposite Chickamin River. Drainage Area: 47 sq. miles
Water Supply Type: Snow, muskeg, small lake, runoff.

Trails & Survey Routes: Best entry by skiff at mid-high tide, can be taken to first main tributary above high tide.

Aerial Survey Notes: Excellent, upper valley difficult for heavier aircraft.

Anchorage: Fair weather anchorage at mouth of cove.

Tide Stage when Surveyed: 2/3 high.

FISHERY RESOURCES

Commercial Fisheries: Pink, chum, coho, there have been kings reported, egg survival is thought to be limited in much of stream due to great amount of sand in the gravel.

Escapement: 62,000 8-10-51; 10 kings 8-1-69. Spawning area= 90,850 m² ITZ 27,870 m² (5000'x120'x50%) Below forks = 48,770 m² (7500'x100'x70% ASA). N.fork = 4460 m² (1500'x80'x40% ASA). S.fork = 9750 m² (5000'x35'x60% ASA)

Timing: August

Schooling Areas: At head of ITZ.

Shellfish Potential: Crabs on delta.

Sport Fisheries: Limited due to inaccessibility. Should have all species if trout in good numbers.

Land Use at Present: Limited recreational opportunity due to problems with accessibility.

History of Land Use: Unknown.

Rehabilitation Potential: None needed.

Soils: Banks are stable with little bedload transport evident.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	
	Number of droppings	Bears present.
Geese -----	Number seen on tide flats	2
	Number seen up creek	
	Number of broods seen	
Mallards ---	Number seen on tide flats	4
	Number seen up creek	
	Number of broods seen	
Mergansers -	Number of broods seen	1
Bald Eagles-	Number seen along creek	1
	Number of nests seen and location	
Seals -----	Number seen at mouth	2
Tide flats -	Estimate length along beach	
	Estimate depth out from beach	
	Eel grass present on what percent of flats	

STREAM INVENTORY FORM

Name: Portage Creek

Number: 101-71-63

Observers: Edgington, Larson, Jackinsky

Date: 5-27-76

Temperature: 40

Weather: Overcast, rain

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Station No.	1	2	3												
Pool Size/Type	3/2	3/2	3/2												
Riffle Type Width-Depth	81'W 1.6'D	123'W 1'D	34'W 1'D												
Pool Riffle Frequency	3	3	3												
Bottom Type (Riffle)	4	4	4												
Color/Turbidity	1/1	1/1	1/1												
Velocity	2	2	2												
Flow (C.F.S.)	282	320	54												
Temp. (°F.)	39	39	38												
pH	7.5	7.5	7.5												
Fry Abundance															
Benthos Sample No.			Many small plecoptera sp?												
Higher Plant Class	1	1	1/4												
Aquatic Veg. Density	3	3	3												
Ident. (1) Mosses (2) Algae	2	1	1-2												

General Remarks (rehab., land use, barriers, log jams, etc.):

Station #1: Right fork by #2 sign.

#2: Main stream middle of pre-emergent area.

#3: Above pre-emergent station south fork.

PEAK ESCAPEMENT RECORD

Portage Creek
101-71-63

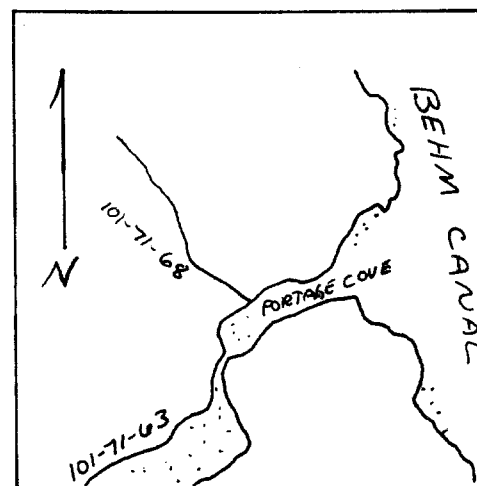
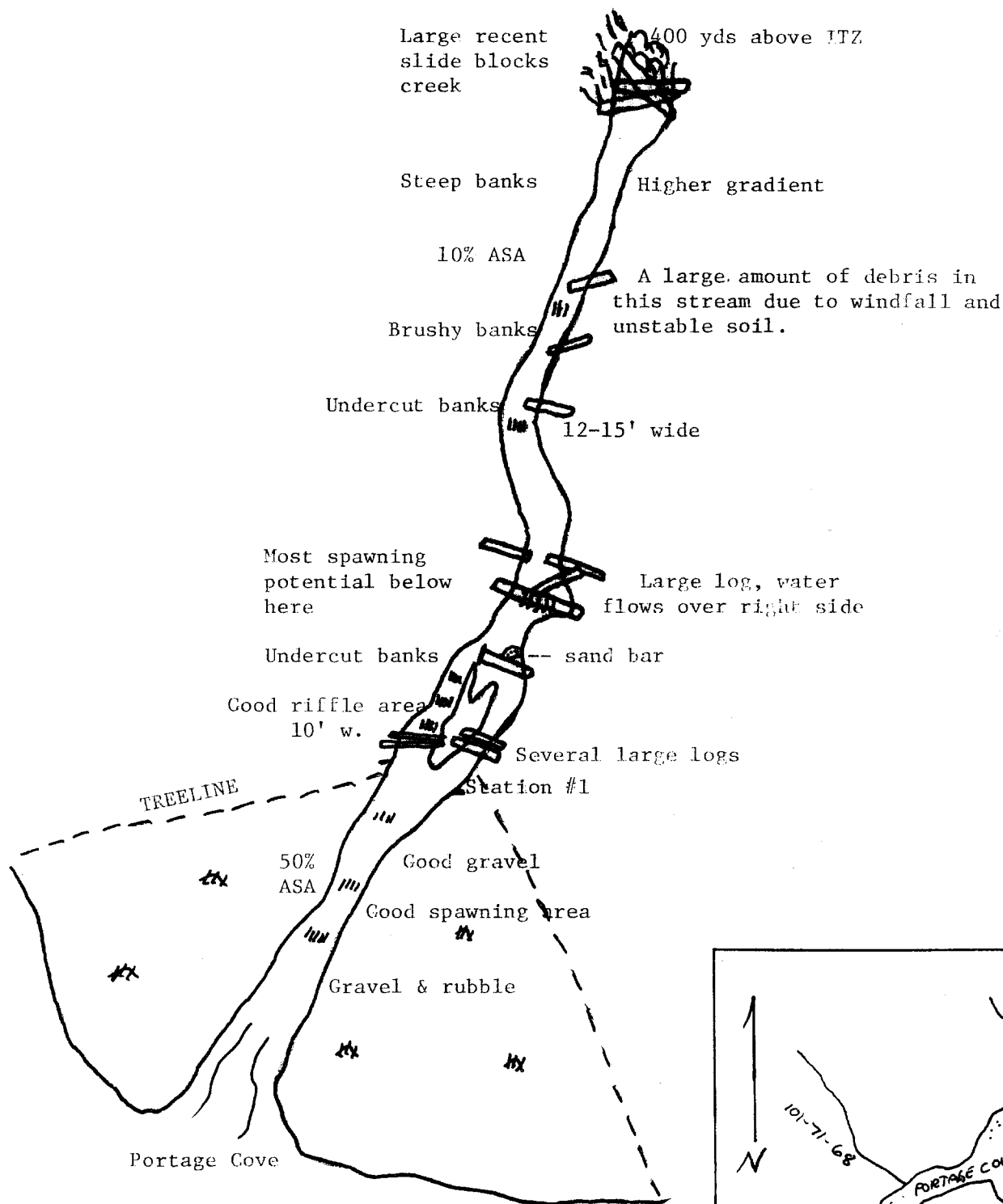
DATE	PINK	CHUM	OTHER SPECIES	REMARKS
9-21-47	250	20	1 coho	
8-1-48	5,000			
8-21-49	15,000	1,100	4 kings	12,100 dead pink, 900 dead chum.
8-9-50	20,000	1,250		
8-10-51	62,000	600	2 red	8-20, 2 kings, 9-2, 600 coho.
8-10-52	10,500	230		
8-2-53	770	1,640		
8-12-54	9,000			650 chum on 8-3.
8-12-55	4,000			
7-29-56	60,000			
7-31-57	10,000			
8-9-60	6,000			
7-28-61	3,100			Some spawning, mostly schooled.
8-3-62	9,100			Some spawning.
8-3-63	3,400	1,000		Visibility good in stream, poor off mouth. None observed I.T.
8-18-64	22,000	2,000		All fish spawning, many dead in lower stream.
9-10-65	50			Visibility excellent.
7-25-66	36,000			Visibility excellent. Fish all schooled.
7-31-67	1 stray	1,200		Visibility good.
7-16-68	39,300	350		Visibility excellent.
8-1-69	130	40	10 kings	Fair visibility.
8-4-70	22,100			1000 dead. Good distribution.
8-27-71	500			Visibility good.
7-31-72	19,800			Visibility good.
7-23-73	100	100		Visibility fair.

PEAK ESCAPEMENT RECORD

Portage Creek
101-71-63

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
8-15-74	13,000			2000 dead. Visibility good.
8-18-75	3,400	3,400		400 pink @ I.T. 50 dead. 50% chum. Visibility excellent.
- 281 -				

Slide Creek
101-71-68
9-11-75
R.Larson, Ward



Name Slide Creek Catalog No. 101-71-68
 Latitude N 55° 46' 15" WR No. _____
 Longitude W 131° 03' 45" K No. _____
 Geodetic Map No. Ketchikan D-4 Work Area Ketchikan
 Location Behm Canal, Portage Cove N. side Watershed Length 3.1 mile
 Drainage Area of Watershed 3.7 sq. miles
 Water Supply Type Glacial supplemented by precipitation.

Trails & Survey Routes Debris and many logs make walking on stream bed difficult. Walking on banks is difficult because of brush.

Aerial Survey Notes This stream is too narrow and obscured by brush, debris and overhanging trees to make aerial survey feasible.

Anchorage Temporary anchorage available in small basin just inside the south point at the entrance to the cove.

Tide Stage When Surveyed low tide.

FISHERY RESOURCES

Commercial Fisheries Pink

Escapement Unknown. No historical record.

(1200'L x 15'W x 15% ASA) Spawning area = 251 m²

Species Composition Unknown, but probably all pink

Timing Early - July, August

Schooling areas No schooling areas noted in stream.

Shellfish Potential There is a relatively low population of dungeness crab in Portage Cove.

Sport Fisheries Possibly cutthroat trout.

Land Use at Present Portage Cove area, (primarily Swedish meadows) is well known as waterfowl hunting area, and as a good bear hunting area.

History of Land Use Unknown

Rehabilitation Potential Nearly all of the debris in stream is immovable.

Soils Soils are unstable throughout stream. Banks are undercut in lower stream. Banks steepen further up creating a high slide potential.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	15
	Number of droppings	4
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	1
Tide flats -	Estimate length along beach	1/4 mile
	Estimate depth out from beach	130 feet
	Eel grass present on what percent of flats	3%

STREAM INVENTORY FORM

Observers: R.Larson - D.Ward

Date: 9-11-75

Temperature: 65°

Weather: Clear

Name: Slide Creek

Number: 101-71-68

Station No.

1

Pool Size/Type

3/3

Riffle Type
Width-Depth

31'W
.4'D

Pool Riffle
Frequency

3

Bottom Type
(Riffle)

5/4

Color/Turbidity

1/1

Velocity

2

Flow (C.F.S.)

22.8

Temp. (°F.)

Estimate
48°

pH

5

Fry Abundance

Benthos
Sample No.

Higher Plant
Class

1

Aquatic Veg.
Density
Ident.

2

(1) Mosses
(2) Algae

2

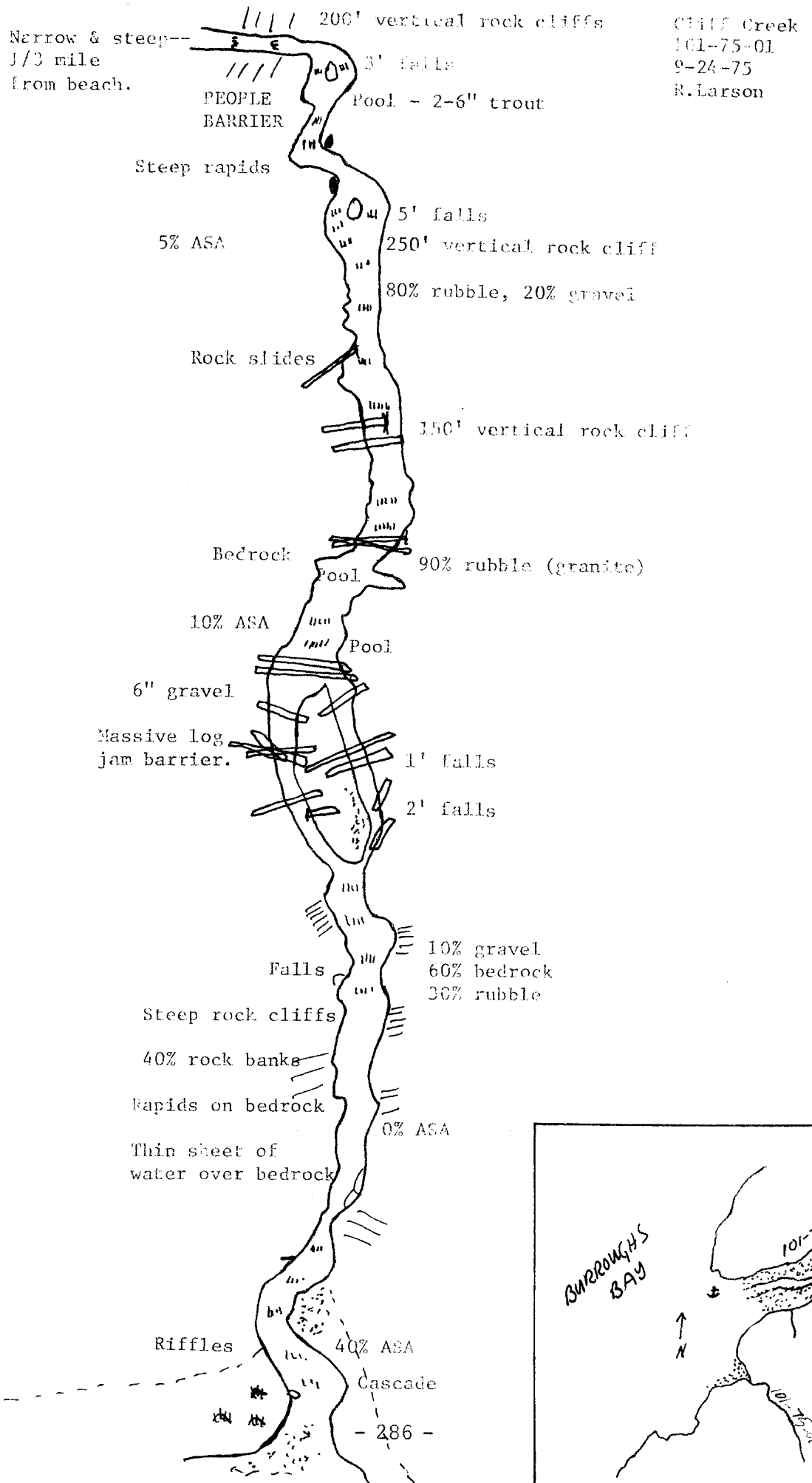
General Remarks (rehab., land use, barriers, log jams, etc.):

PEAK ESCAPEMENT RECORD

North side of Portage
101-71-68

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
9-11-75	300			45 @ I.T.

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Name Cliff Creek Catalog No. 101-75-01
Latitude N 56° 02' 09" WR No. _____
Longitude W 131° 06' 42" K No. _____
Geodetic Map No. Bradfield Canal A-4 Work Area Ketchikan
Location So. side Burroughs Bay, 2 mi so. of Klahini River outlet. Watershed Length 4 miles
Drainage Area of Watershed 8.2
Water Supply Type Some small high snowfield supplemented by precipitation and ground water.
Trails & Survey Routes There is a barrier to stream travel approximately 1/3 mile upstream. Stream is relatively easy to walk to this point.
Aerial Survey Notes This stream is too small to survey by air.
Anchorage Convenient tie-up at Forest Service float inside of point between Unuk and Klahini Rivers along north shore.
Tide Stage When Surveyed Second half of ebb.

FISHERY RESOURCES

Commercial Fisheries Pink

Escapement Unknown, no historical record

(.05% x 300'x10') + (.40% x 36' x 100') Spawning area = 148 m².

Species Composition Unknown

Timing Early - July, August

Schooling areas _____

Shellfish Potential Dungeness crab are found throughout Burroughs Bay.

Sport Fisheries Very limited trout.

Land Use at Present None

History of Land Use Unknown

Rehabilitation Potential The low quality of this stream and the unavailability of spawning area makes the need for rehabilitation unlikely.

Soils Majority of area is exposed or thinly covered bedrock.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	-
	Number of droppings	-
Geese -----	Number seen on tide flats	-
	Number seen up creek	-
	Number of broods seen	-
Mallards ---	Number seen on tide flats	-
	Number seen up creek	-
	Number of broods seen	-
Mergansers -	Number of broods seen	-
Bald Eagles-	Number seen along creek	-
	Number of nests seen and location	-
Seals -----	Number seen at mouth of stream	-
Tide flats -	Estimate length along beach	-
	Estimate depth out from beach	-
	Eel grass present on what percent of flats	-

STREAM INVENTORY FORM

Observers: R. Larson, Ward

Date: 9-24-75

Name: Cliff Creek

Temperature: 52°

Number: 101-75-01

Weather: Rain

Station No.

1

Pool Size/Type

3/1

Riffle Type
Width-Depth

36'W
.77'D

Pool Riffle
Frequency

3

Bottom Type
(Riffle)

4

Color/Turbidity

1/1

Velocity

2

Flow (C.F.S.)

Temp. (°F.)

47°

pH

5

Fry Abundance

Benthos
Sample No.

Higher Plant
Class

2

Aquatic Veg.
Density

3

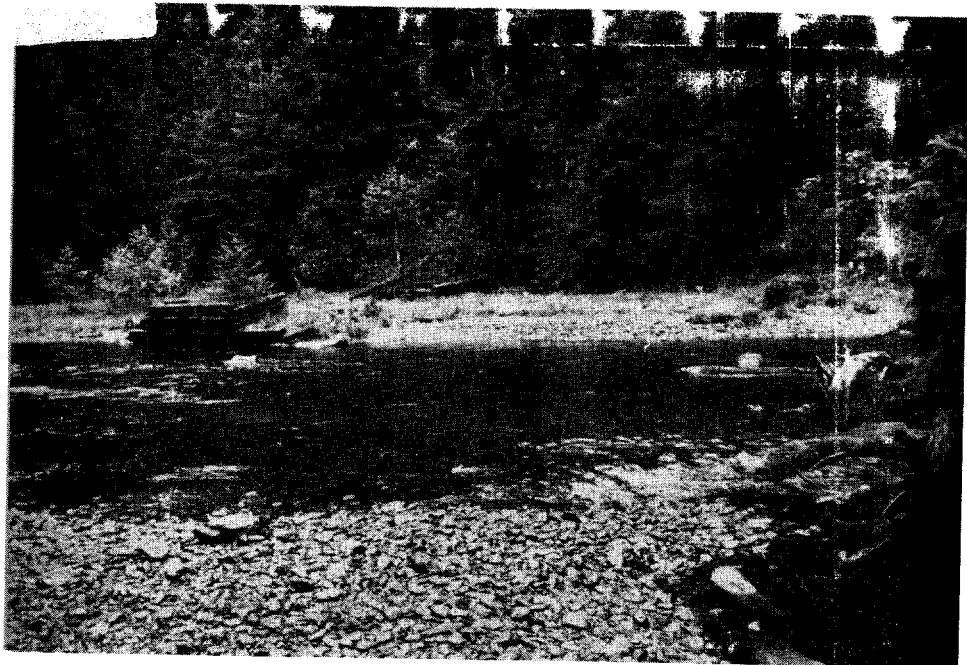
Ident.

(1) Mosses

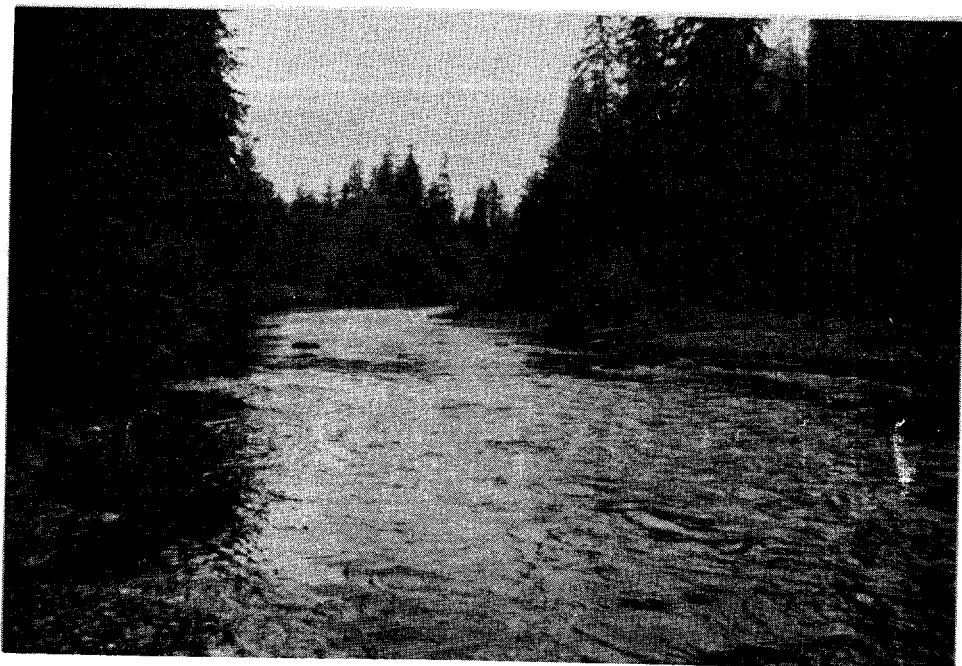
(2) Algae

2

General Remarks (rehab., land use, barriers, log jams, etc.):



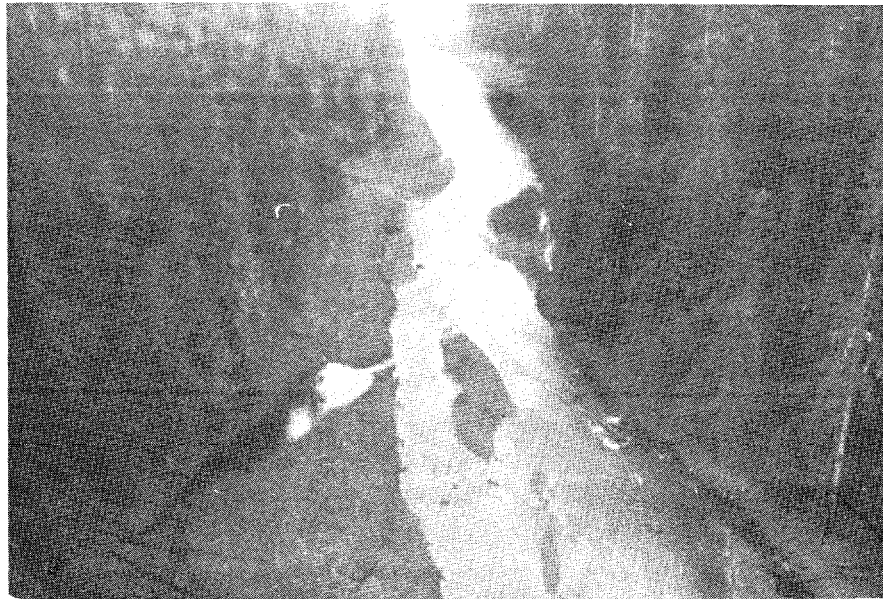
Herman Creek, old weir site, station # 3



Herman Creek, old weir site, upstream

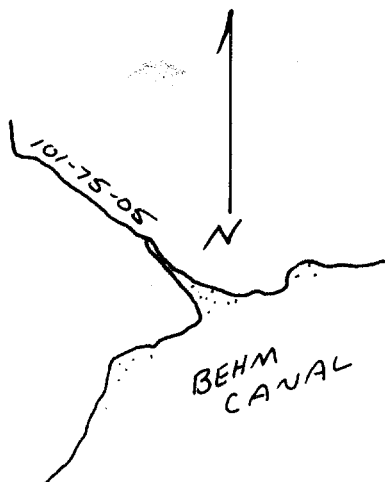
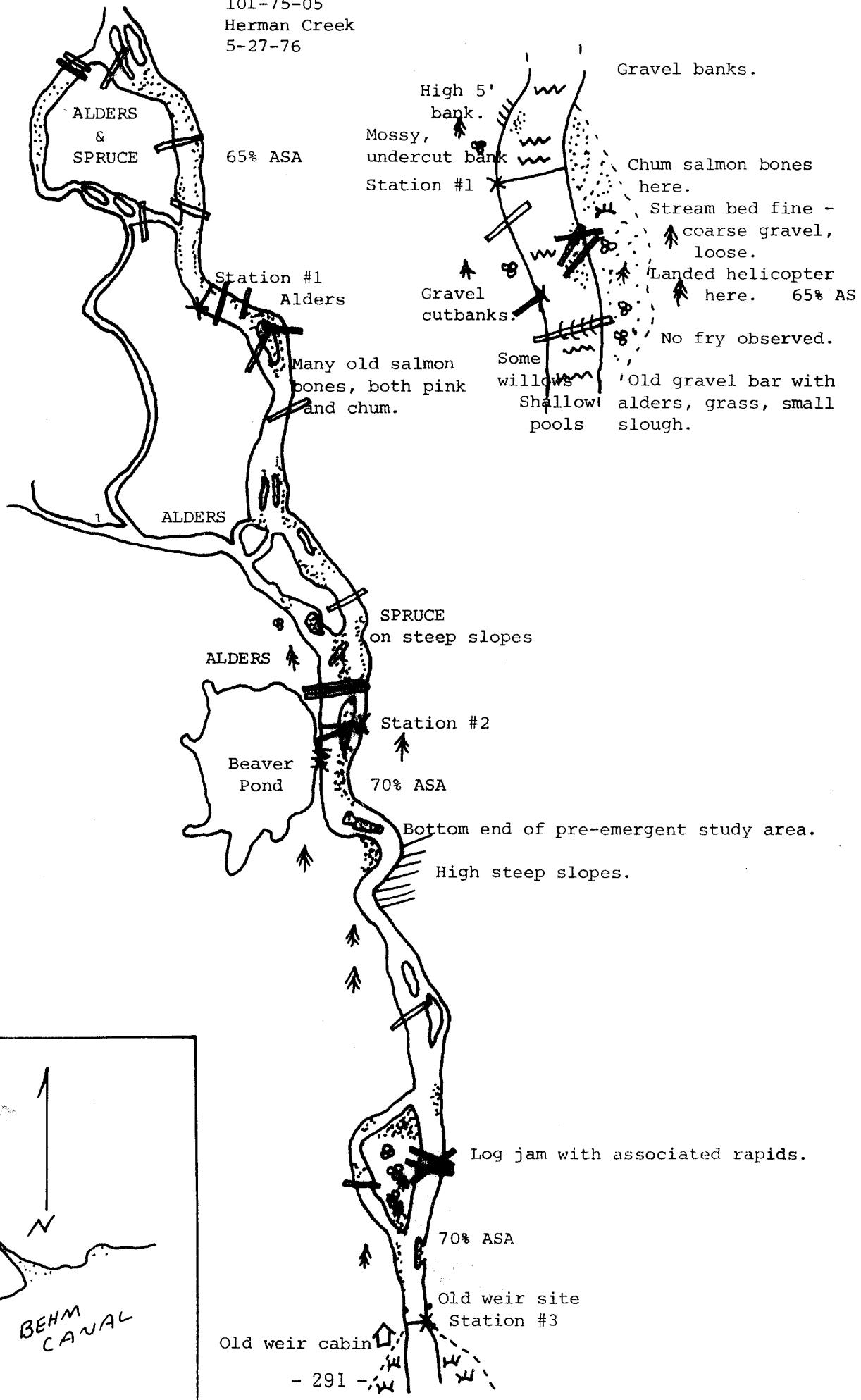


Herman Creek, upper station looking upstream.



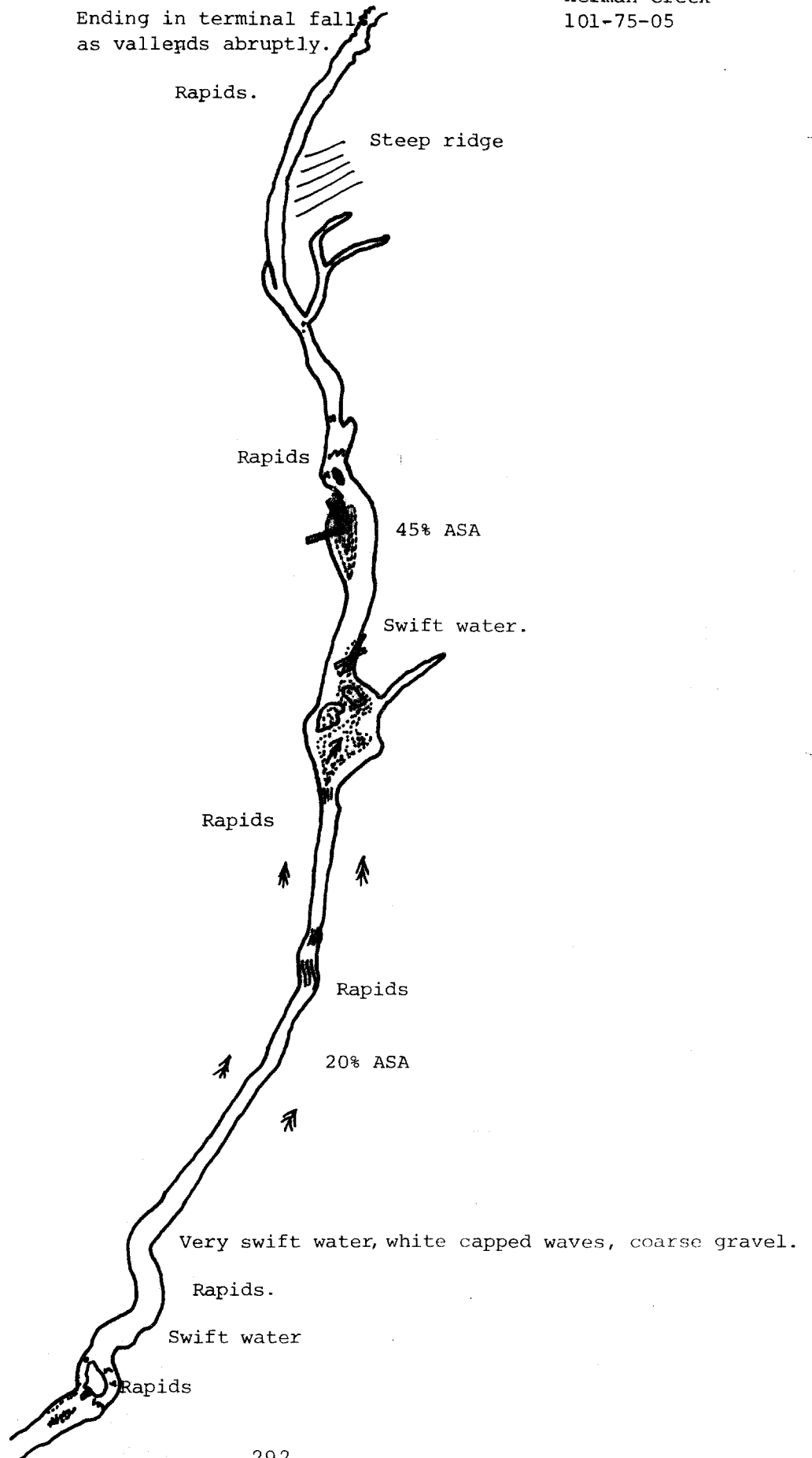
Herman Creek below old weir site down to saltwater.

101-75-05
Herman Creek
5-27-76



Ending in terminal fall
as valleys abruptly.

Herman Creek
101-75-05



Name: Herman Creek Catalog No.: 101-75-05
Latitude: 55 59' 64" WR No.: 45
Longitude: 131 17' 36" K No.: 50
Geodetic Map No.: Ketchikan D-4 Work Area: Ketchikan
Location: Behm Canal, N.Shore, 3 miles Watershed Length: 5 miles
W. of Burroughs Bay. Drainage Area: 24 sq. miles
Water Supply Type: Small lake, early snowfields, muskeg areas.

Trails & Survey Routes: At low water walking is very easy on gravel banks except for the many large logs in streambed.

Aerial Survey Notes: Clearwater and light colored bottom makes salmon enumeration easy. However, the valley is narrow and trees along stream are tall, careful flight plan-

Anchorage: ning is required.

Exposed anchorage in small basin inside W. point at steep drop off.

Tide Stage when Surveyed: 1/2

FISHERY RESOURCES

Commercial Fisheries: Pink, chum, coho, king.

Escapement: Hi peak esc 90,000 1952; hi peak esc. since 1961: 34,000 1970; low esc. since 1961: 300 1969; 14 yr. average since 1961: 11,064. Spawning area: 28,500 m²

Species Composition: Major species: pink, (10,500'x45'x65% ASA)

Good numbers of chum on occasion.

Timing: Early - July, August:

Schooling Areas: In lower intertidal and below log jam above weir site.

Shellfish Potential: None

Sport Fisheries: Dolly Varden, cutthroat, rainbow trout.

Land Use at Present: None

History of Land Use: Old weir site at head of ITZ.

Rehabilitation Potential: None needed.

Soils: Generally stable, considerable braiding with alders and fallen logs in streambed.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	many
	Number of droppings	
Geese -----	Number seen on tide flats	
	Number seen up creek	
	Number of broods seen	
Mallards ---	Number seen on tide flats	
	Number seen up creek	
	Number of broods seen	
Mergansers -	Number of broods seen	1
Bald Eagles-	Number seen along creek	1
	Number of nests seen and location	
Seals -----	Number seen at mouth	2
Tide flats -	Estimate length along beach	
	Estimate depth out from beach	
	Eel grass present on what percent of flats	

STREAM INVENTORY FORM

Observers: Edgington, Larry Jackinsky

Date: 5-27-76

Name: Herman Creek

Temperature: 40

Number: 101-75-05

Weather: Overcast, rain

5-27 3-20 9-24-75

Station No.
Pool Size/Type
Riffle Type
Width-Depth
Pool Riffle
Frequency
Bottom Type
(Riffle)
Color/Turbidity
Velocity
Flow (C.F.S.)
Temp. (°F.)
pH
Fry Abundance
Benthos
Sample No.
Higher Plant
Class
Aquatic Veg.
Density
Ident.
(1) Mosses
(2) Algae

1	2	3														
3/3	3/2	2/2														
41'W	35'W 1'D	62'W 1.09'D														
3	3	3														
4	4	4														
1/1	1/1	1/1														
2	2	2														
173	est. 50	131														
40	33	49														
7.5	4.5	5														
0	0	8-5														
some alder 1	1*	1														
3	none evid- ent.	1														
2		2														

General Remarks (rehab., land use, barriers, log jams, etc.): #1 Some sand between uniform 2-6" gravel (granite) with rubble.
#2* "Blue" colored spruce. Wild currents, grass on banks. Middle of upper pink salmon study area. 85% ASA
#3 - station taken just below the old weir.

PEAK ESCAPEMENT RECORD

Herman Creek
101-75-05

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
8-15-33				1500 fish in stream. 18 mi. only.
9-21-42	3,500	150		.5 miles only.
9-16-43	2,000	400		.5 miles only.
8-22-47	5,000		100 coho on 9-26.	Some chum.
8-17-48	25,000		200 coho	Chum, fair.
9-21-49	88,433	12,475	131 coho, 9 king	Weir total July 22 - Sept. 21.
9-4-50	50,269	20,491	8 coho, 4 king	Weir total installed July 21.
9-6-51	90,764	13,670	8 coho, 17 king	Weir total installed July 14.
8-31-52	21,999	11,312		Weir total installed July 14.
8-24-53	4,593	12,505	1 coho, 6 king	Weir total installed July 19.
9-4-54	13,630	4,300	20 coho, 24 king	Weir total installed July 9.
9-1-55	2,126	226	9 king	Weir total installed July 16. 3,000 additional - weir washed out.
9-5-56	31,048	4,920	14 coho, 26 king	Weir total installed July 18.
8-8-57	8,100	500		(5000 chum 8-10)
8-20-60	7,000	few		
8-2-61		1,100		Visibility fair.
8-3-62	6,200			Visibility excellent.
8-8-63	2,100	700		Visibility fair.
8-4-64		19,700		40% chum.
8-16-65		1,900		Visibility good.
8-12-66	21,900	1,300		Visibility fair. All spawning, many dead.
7-31-67	200	1,100		Good visibility.
7-29-68	32,000	2,900		1250 @ I.T. Vis. ex. Chums spawning, pinks largely schooled.
8-6-69	300	70	some king	Poor visibility.
8-4-70	34,000	3,300	- 295 -	Vis. good. Few dead chums.

PEAK ESCAPEMENT RECORD

Herman Creek
101-75-05

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
8-12-71	2,900	1,100		Few dead, visibility fair.
7-31-72	28,000	5,000		Visibility good.
8-17-73	6,100	10%		Visibility good.
8-15-74		7,500		1000 dead. Vis. good.
8-18-75	8,400	5%		1000 @ I.T. 800-1000 dead. Vis. good.

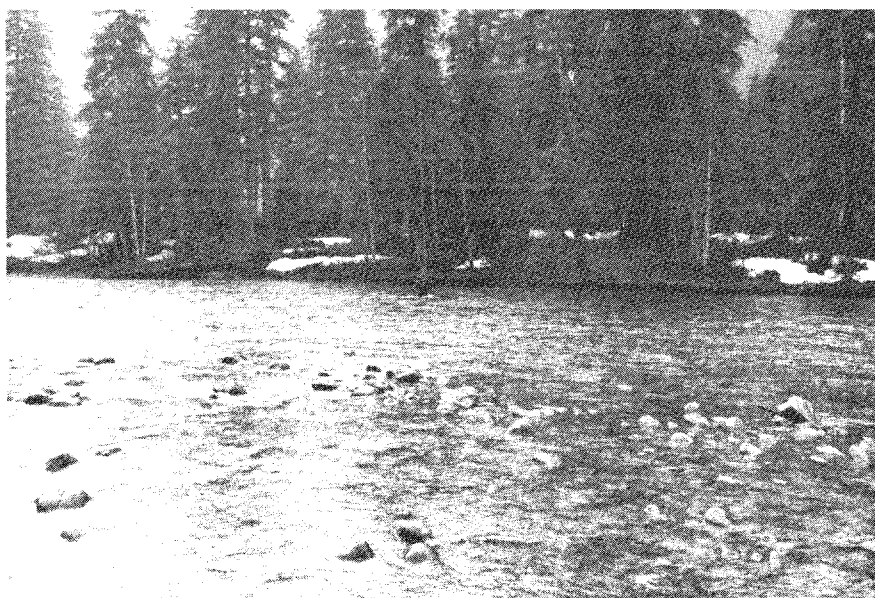
- 296 -



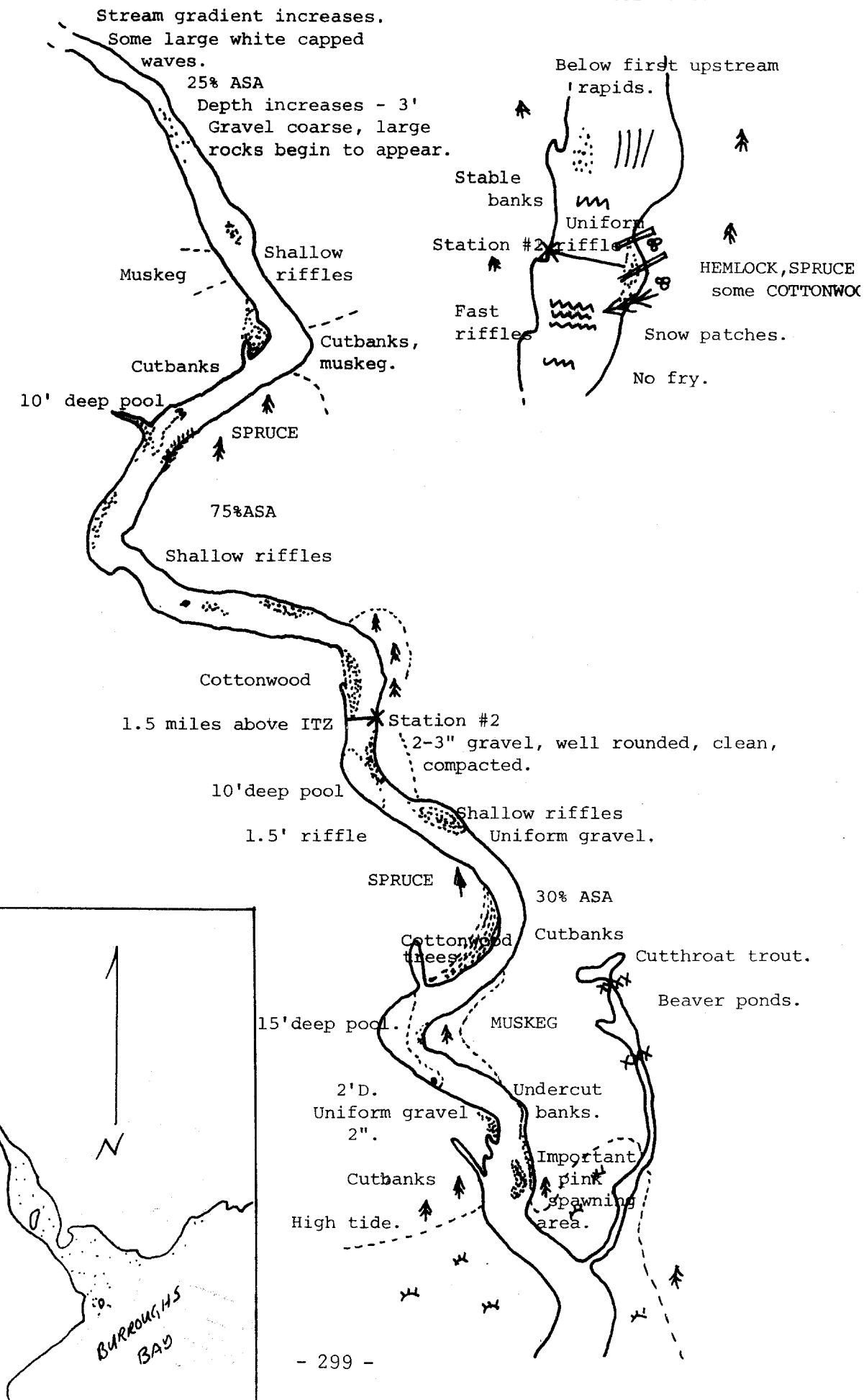
Grant Creek, station #1

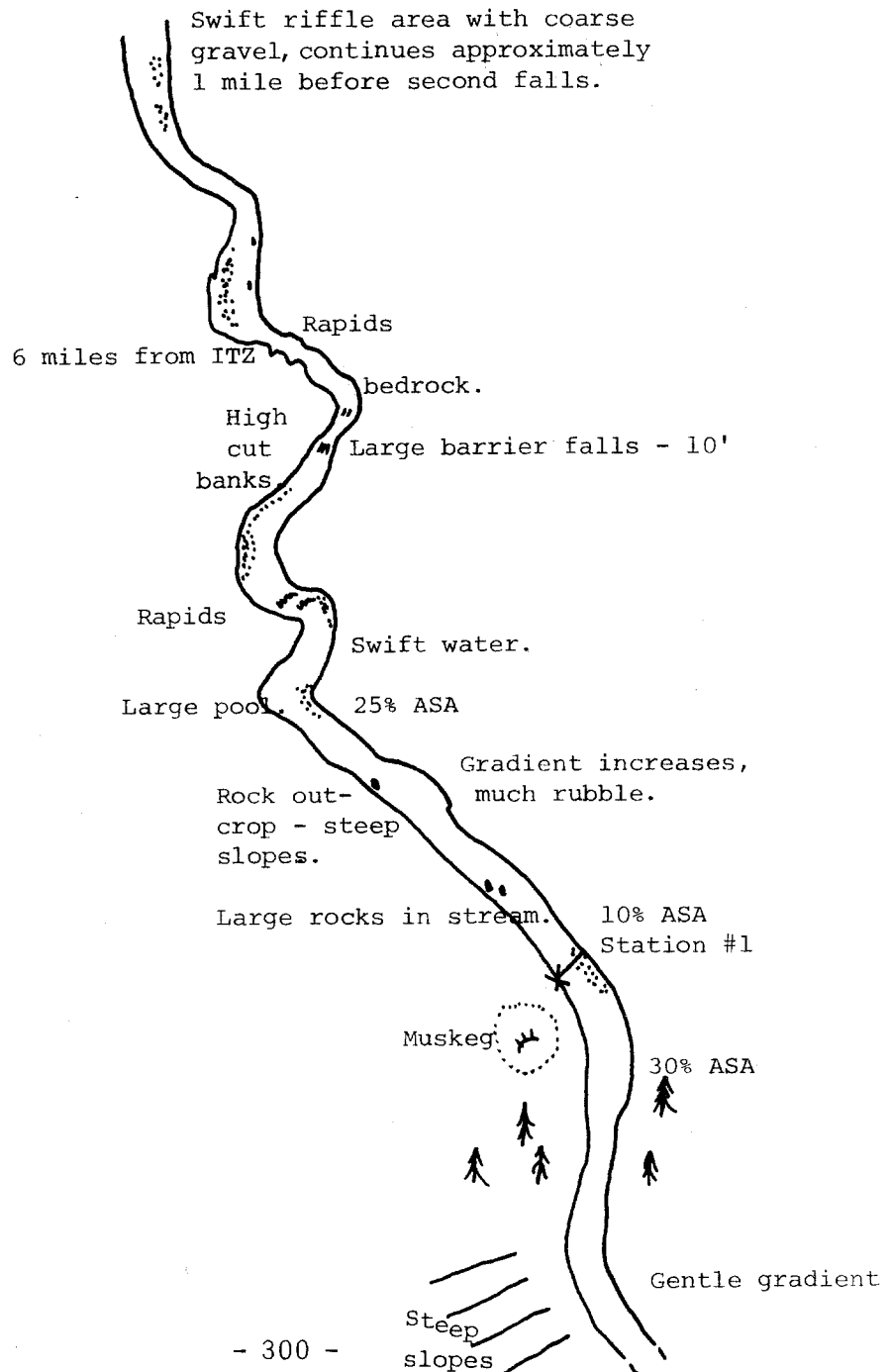


Grant Creek falls lower.



Grant Creek middle station.





Name: Grant Creek Catalog No.: 101-75-10
Latitude: 56 02' 22" WR No.: 44
Longitude: 131 12' 45" K No.: 49
Geodetic Map No.: Bradfield Canal A-4 Work Area: Ketchikan
Location: No. side Burroughs Bay, 5.8 mi. from head. Watershed Length: 14.5 miles
Drainage Area: 78 sq. miles (polar planimeter)
Water Supply Type: Several small glaciers and permanent snowfields supplemented by precipitation.
Trails & Survey Routes: River skiff is the most practical method of surveying Grant Creek, as it can be taken over 4 miles upstream.
Aerial Survey Notes: The valley is broad, the bottom is light colored, gravel and the water is usually clear making aerial surveying very effective.
Anchorage: E. of center of delta mouth just inside line from islet to the nearest point visible on S. shore.
Tide Stage when Surveyed: 1/2

FISHERY RESOURCES

Commercial Fisheries: Pink, chum, king, coho. Small escapements in relation to available spawning area, why escapements are not higher is unclear, ASA of poor quality
Escapement: Hi peak esc. 30,000 1951; since 1961 - 17,500 in 1970. Low peak / perhap esc since 1961 300 in 1961. 14 yr. ave. 1961; 4757. Spawning area: 183,900 m²
Species Composition: Mostly pink. (5 mi. x 150' x 50% ASA)

Timing: Early - July, August

Schooling Areas: There are two deep pools above hi tide area where a very large number of fish could school.

Shellfish Potential: Good crab fishing on river delta.

Sport Fisheries: Rainbow, cutthroat, and Dolly Varden.

Land Use at Present: Recreational - hunting and fishing. Good waterfowl area.

History of Land Use: Unknown.

Rehabilitation Potential: No physical changes needed but a study should be done to determine why a creek of this size doesn't produce more fish.

Soils: The streambed is made up of gravel but the stream is undercutting the banks at steep turns.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	3
	Number of droppings	4
Geese -----	Number seen on tide flats	15
	Number seen up creek	
	Number of broods seen	
Mallards ---	Number seen on tide flats 50 teal	25
	Number seen up creek	
	Number of broods seen	
Mergansers -	Number of broods seen	5 adults
Bald Eagles-	Number seen along creek	2
	Number of nests seen and location	
Seals -----	Number seen at mouth	12
Tide flats -	Estimate length along beach	1 1/2 mile
	Estimate depth out from beach	200 yds.
	Eel grass present on what percent of flats	-

STREAM INVENTORY FORM

Observers: Edgington, Lar, Jackinsky

Date: 5-27-76

Temperature: 40

Weather: Overcast rain

Name: Grant Creek

Number: 101-75-10

5-27-76
9-24-75
Downey, Ward

Station No.

1

2

Pool Size/Type

3/3

3/2

Riffle Type
Width-Depth

150'W
1.5'D

150'W

Pool Riffle
Frequency

3

3

Bottom Type
(Riffle)

1-4

4-1

Color/Turbidity

1/1

1/1

Velocity

2

2

Flow (C.F.S.)

691

832

Temp. (°F.)

41

48

pH

7.5

5

Fry Abundance

1/1

1-many

Benthos
Sample No.

-

Higher Plant
Class

1

1

Aquatic Veg.
Density
Ident.

1

3

(1) Mosses
(2) Algae

2

1

General Remarks (rehab., land use, barriers, log jams, etc.):

Station #1 - about 7 miles up from tidewater.

PEAK ESCAPEMENT RECORD

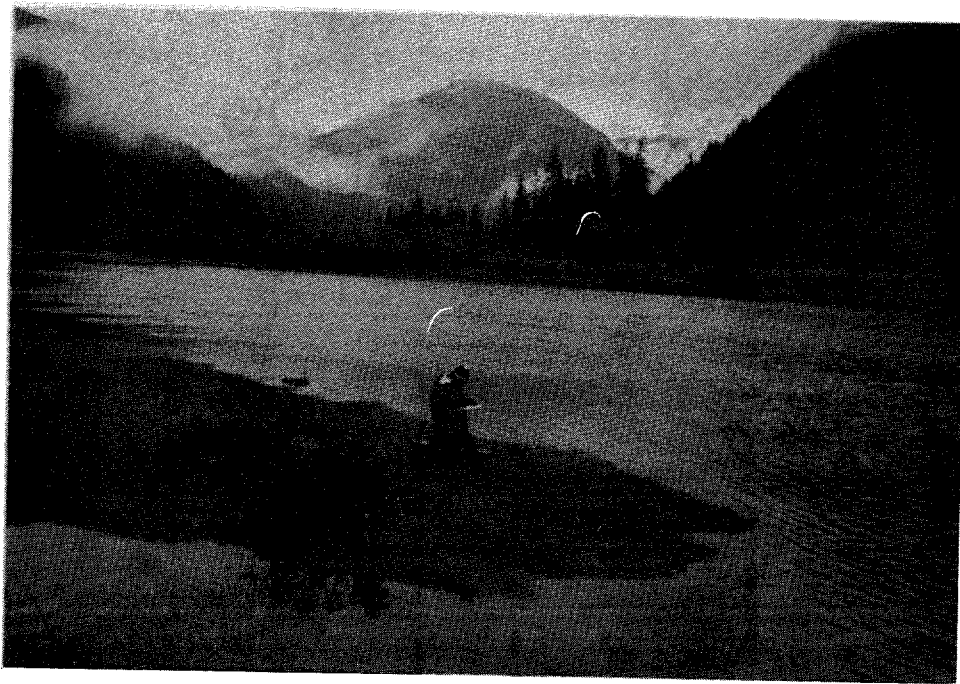
Grant Creek
101-75-10

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
9-21-42				Few pink and chum.
9-16-43				Very few. I.T. only.
9-26-47	32	32	2 coho	I.T. only.
7-30-49	15,500			
8-2-50	28,000	6,000		
8-2-51	30,000	5,000		200 dead chum. Poor visibility.
8-12-52	7,800	1,155	25 kings	500 dead chum.
7-25-53	43	223	5 kings on 8-12.	10% visibility.
8-12-54	7,500	200		
8-12-55	600			
7-29-56	16,000	2,500		
7-31-57	3,000	5,000	Several kings on 8-10	
8-20-60	1,500			All spawning.
8-2-61	some	2,100		Most spawning.
7-31-62		2,900		
8-3-63	700	600	few kings	Poor visibility at mouth. None observed I.T. Good vis. in stream.
7-30-64	8,800	3,000	few kings	200 I.T. Chums spawning, pinks schooled.
8-16-65	1,000	700		Visibility excellent.
7-25-66	7,000	1,000	100 kings	Vis. excellent. Chums spawning.
7-31-67	100	2,600		Visibility good.
8-19-68	9,400	800	few coho	Visibility excellent.
8-6-69	850	270	50+ kings	Visibility poor.
8-4-70	15,300	3,000	few dead kings	Chums spawning. Visibility good.
8-12-71	500	700	kings present	Vis. fair - few dead.
- 303 -				

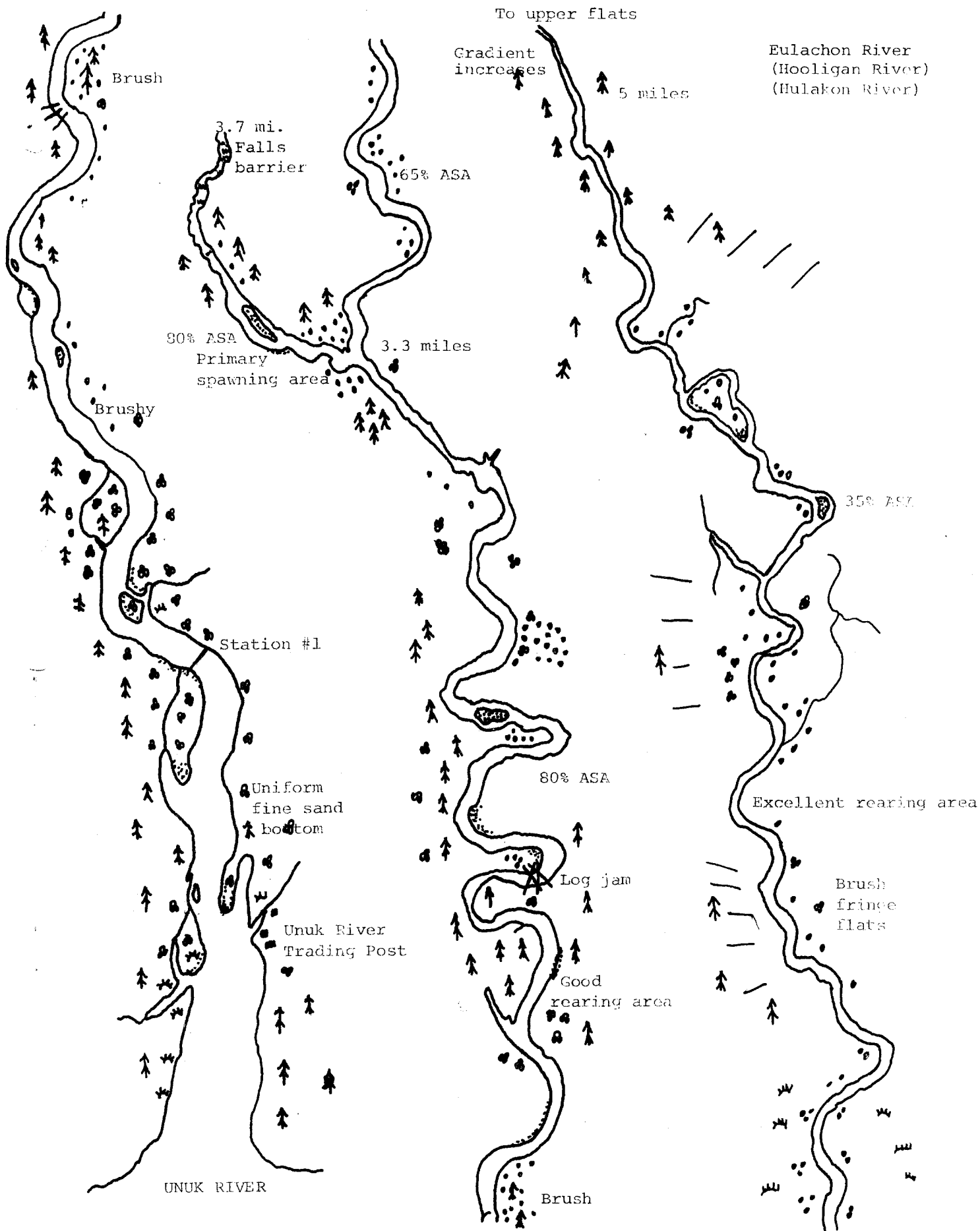
PEAK ESCAPEMENT RECORD

Grant Creek
101-75-10

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
7-31-72	14,000	2,500		Visibility good.
8-17-73	1,400	450	38 kings	
8-1-74	1,200			
8-18-75	2,275	200		Visibility good.
- 304 -				



Eulachon River, station #1, upstream



Name Eulachon River Catalog No. 101-75-15
 Latitude N 56 05' 09" WR No. 43
 Longitude W 131 05' 16" K No. 48-1
 Geodetic Map No. Bradfield C. A-4 Work Area Ketchikan
 Location N. head of Burroughs Bay Watershed Length 9 miles
 Drainage Area of Watershed 48 sq. miles (polar planimeter)
 Water Supply Type Large snowfields along high ridges supplemented by beaver ponds, muskeg areas and precipitation.
 Trails & Survey Routes A small skiff can be taken to the base of the spawning riffles 3 miles upstream.
 Aerial Survey Notes Good visibility and an easily followed stream course enables excellent aerial survey conditions.
 Anchorage Forest Service float inside of point between Unuk and Klahini River on north shore.
 Tide Stage When Surveyed _____

FISHERY RESOURCES

Commercial Fisheries Pink, chum, coho, king, smelt.

Escapement Hi peak esc. 71,200 1950, hi pink esc since 1961 - 60,000 1964. low esc. since 1961 - 500 in 1967, 14 year. average since 1961 12,071. Spawning area = 31400 m². (45'x5500'x80% + 40'x10,000'x35%)

Timing EARly - July, August.

Schooling areas _____

Shellfish Potential Dungeness crab are found throughout Burroughs Bay in shallow areas.

Sport Fisheries Rainbow, cutthroat, and Dolly Varden trout.

Land Use at Present Recreational hunting and fishing. Several cabins along lower part of river.

History of Land Use _____

Rehabilitation Potential No rehabilitation needed to increase salmon production.

Soils Stable. Approximately 1 mile of sand in lower portion.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	_____
	Number of droppings Tracks.	_____
Geese -----	Number seen on tide flats	_____
	Number seen up creek	_____
	Number of broods seen	_____
Mallards ---	Number seen on tide flats	_____
	Number seen up creek	_____
	Number of broods seen	_____
Mergansers -	Number of broods seen	_____
Bald Eagles-	Number seen along creek	_____
	Number of nests seen and location	_____ 3 adults
Seals -----	Number seen at mouth of stream	_____
Tide flats -	Estimate length along beach	_____
	Estimate depth out from beach	_____
	Eel grass present on what percent of flats	_____

STREAM INVENTORY FORM

Observers: R. Larson & D. Ward

Date: 9-24-75

Name: Eulachon River

Temperature: 56

Number: 101-75-15

Weather: Overcast

Station No.

1

Pool Size/Type

2/2

Riffle Type
Width-Depth

189'W
1.2'D

Pool Riffle
Frequency

1

Bottom Type
(Riffle)

1

Color/Turbidity

1/1

Velocity

1

Flow (C.F.S.)

252.2

Temp. (°F.)

46

pH

5

Fry Abundance

1-1

Benthos
Sample No.

Higher Plant
Class

4*

Aquatic Veg.
Density
Ident.

3

(1) Mosses
(2) Algae

2

General Remarks (rehab., land use, barriers, log jams, etc.):

*Spruce, willow, alder.

PEAK ESCAPEMENT RECORD

Eulachon Creek
101-75-15

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
8-9-48				Chum, pink good.
7-22-49	2,000	500	1 red	
8-11-50	70,000		1000 kings 500 coho on 8-22	1,200 dead pinks.
8-2-51	20,000	400	200 kings	
8-9-52	17,160	590	244 kings	148 dead pinks, 140 dead chums. 3,120 chum 7-28
8-2-53	2,900	1,900	415 kings	
8-12-54	6,000			
7-31-55	6,000	200	600 kings	
7-29-56	10,000		1000 kings	
7-31-57	5,000		500 kings	Some chum.
7-30-60	2,500	several 100	several 100 kings.	
8-1-61	3,800	3,000	270 kings	Most schooled.
7-31-62	9,200			Visibility excellent.
8-3-63	2,000	100	200 kings	Kings, chums spawning heavily. Pinks schooled.
7-30-64	50,000	10,000		10,000 @ mouth. Vis. good.
8-3-65	1,000	700		Vis. excellent. Fish upstream.
7-25-66	28,000	2,000		6000 @ mouth. Some spawning in upper part of stream.
7-31-67	500	1,500	few coho	Good visibility.
7-29-68	12,000	14,000	7 kings	2500 @ mouth. Visibility excellent
8-21-69	1,300		150 kings	All spawning above forks.
8-4-70	16,700	1,300		I.T. included in stream count.
8-12-71	1,600	300	30 kings	Visibility fair. 100 dead.
7-31-72	18,000	4,600		
			- 309 -	

PEAK ESCAPEMENT RECORD

Eulachon
101-75=15

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
8-17-73	1,600			50% chums. Visibility good.
8-7-74	5,200			Chums mixed in. Vis. good.
8-18-75	6,400	1,000	15-20 kings	500 dead. Vis. ex. 600 @ mouth, 10 @ I.T.
- 310 -				

Name Clear Creek (Lower) Catalog No. 101-75-17
Latitude N 56 07' 05" WR No. _____
Longitude W 131 01' 55" K No. _____
Geodetic Map No. Bradfield C. A-4 Work Area Ketchikan
Location W. side 3.5 mi. Unuk River Watershed Length 8 miles
Drainage Area of Watershed 13 sq.miles
Water Supply Type Melting snow, lake, precipitation, groundwater.

Trails & Survey Routes Access by riverboat, streambed can be walked to falls at low water. Banks quite brushy.
Aerial Survey Notes Visibility limited to only those periods when not influenced by muddy river water. Considerable overhead cover.
Anchorage _____

Tide Stage When Surveyed _____

FISHERY RESOURCES

Commercial Fisheries Pinks, chums, coho

Escapement _____

Spawning area 1561 m² (40'x1200'x35%)

Species Composition Pinks and chum major species.

Timing early August

Schooling areas _____

Shellfish Potential _____

Sport Fisheries Dolly Varden present. May spawn here.

Land Use at Present Recreational hunting.

History of Land Use Mineral exploration

Rehabilitation Potential None needed.

Soils Alluvial gravel and sand, subject to bedload movement when river floods.

GAME RESOURCES

Bear ----- Fish carcasses or bones (old or fresh) on banks, estimate
Number of droppings _____

Geese ----- Number seen on tide flats _____

Number seen up creek _____

Number of broods seen _____

Mallards --- Number seen on tide flats _____

Number seen up creek _____

Number of broods seen _____

Mergansers - Number of broods seen _____

Bald Eagles- Number seen along creek _____

Number of nests seen and location _____

Seals ----- Number seen at mouth of stream _____

Tide flats - Estimate length along beach _____

Estimate depth out from beach _____

Eel grass present on what percent of flats _____

STREAM INVENTORY FORM

Name: Clear Creek (lower)

Number: 101-75-17

Observers: R. Larson, Siedel, Ahrendt

Date: 11-20-75

Temperature: 34

Weather: Overcast

Station No.

Pool Size/Type

Riffle Type
Width-Depth

Pool Riffle
Frequency

Bottom Type
(Riffle)

Color/Turbidity

Velocity

Flow (C.F.S.)

Temp. (°F.)

pH

Fry Abundance

Benthos
Sample No.

Higher Plant
Class

Aquatic Veg.
Density
Ident.

(1) Mosses

(2) Algae

1															
2/2															
40'W .6'D															
3															
4															
1/1															
2															
18.4															
35															
5															
1															
2															
2															

General Remarks (rehab., land use, barriers, log jams, etc.): Grey silt evident.

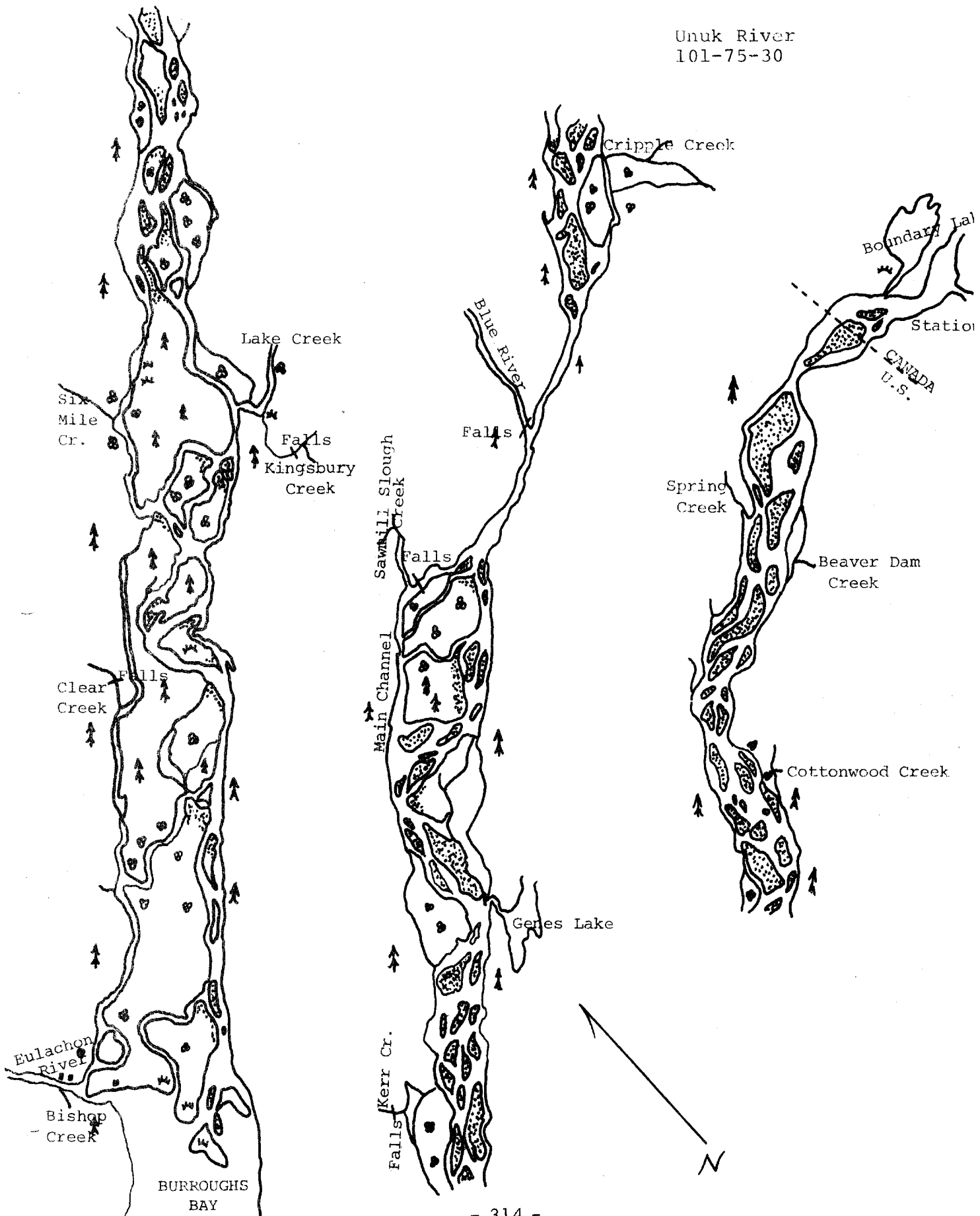
PEAK ESCAPEMENT RECORD

Clear Creek (N.W. shore Unuk River)
101-75-17

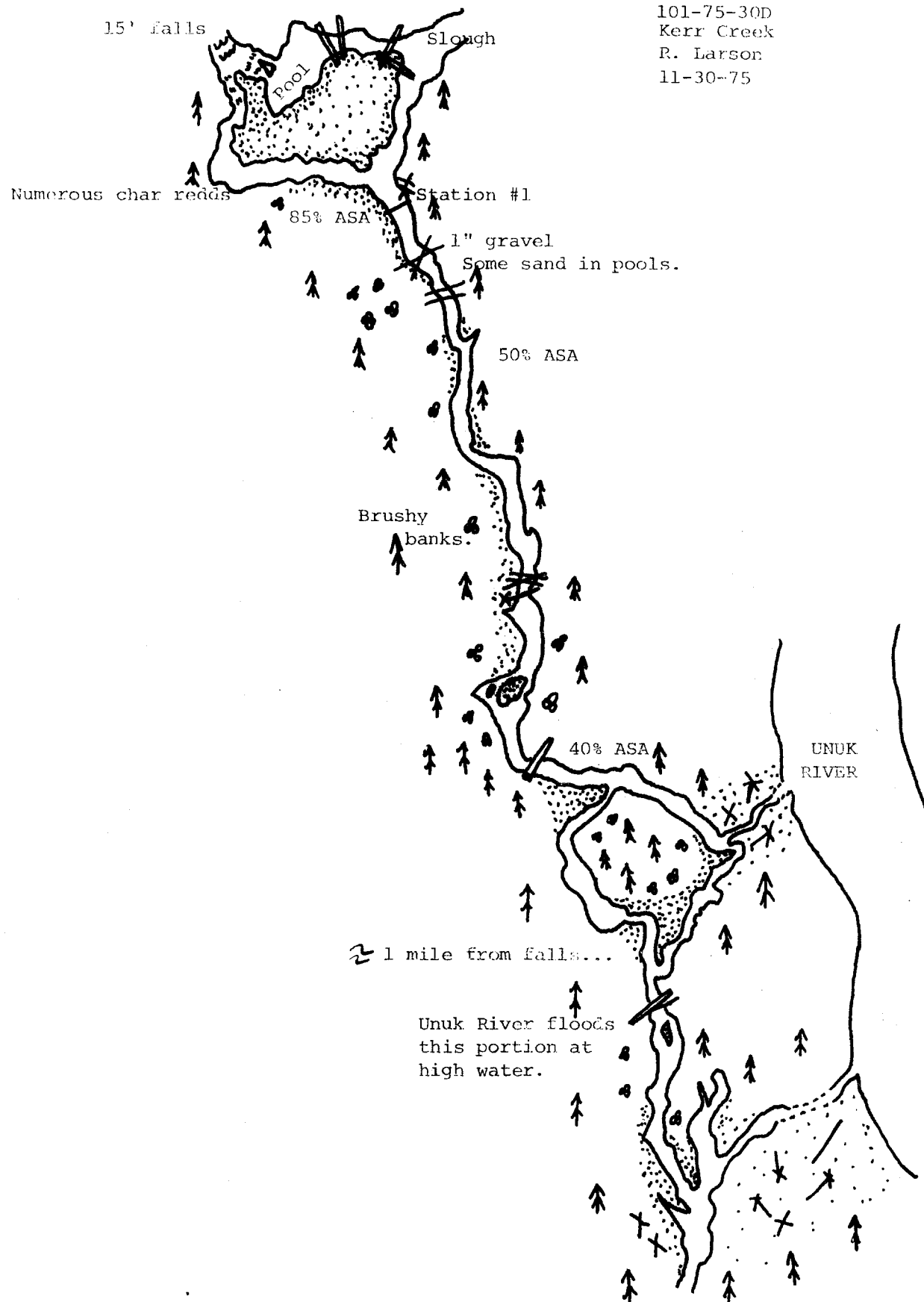
DATE	PINK	CHUM	OTHER SPECIES	REMARKS
7-23-49	20	80		
8-21-52	600		5 king	Some chum.
8-22-61	300	150		
7-63			Some kings	
8-15-69	250		10 kings	

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Unuk River
101-75-30



101-75-30D
Kerr Creek
R. Larson
11-30-75



Name Kerr Creek Catalog No. 101-75-30D
Latitude N 56 09' 50" WR No. _____
Longitude W 130 56' 45" K No. _____
Geodetic Map No. Bradfield C. A-3 Work Area Ketchikan
Location W. side mile 9.5 Unuk River. Watershed Length 9.5 miles
Drainage Area of Watershed 17 sq. miles
Water Supply Type Melting snow, precipitation, groundwater.

Trails & Survey Routes Streambed can be walked at low water; banks are quite brushy.

Aerial Survey Notes Glacial color for much of year. Some sections may be masked by overhead cover.

Anchorage _____

Tide Stage When Surveyed _____

FISHERY RESOURCES

Commercial Fisheries Pink, chum, coho, king.

Escapement _____

(23'x2500'x25%) Spawning area = 1335 m²

Species Composition _____

Timing Early - August.

Schooling areas _____

Shellfish Potential _____

Sport Fisheries Dolly Varden, spawning area.

Land Use at Present Recreational hunting.

History of Land Use Mineral exploration.

Rehabilitation Potential None needed.

Soils Alluvial gravel and sand. May be subject to some bedload movement during floods.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	_____
	Number of droppings	_____
Geese -----	Number seen on tide flats	_____
	Number seen up creek	_____
	Number of broods seen	_____
Mallards ---	Number seen on tide flats	_____
	Number seen up creek	_____
	Number of broods seen	_____
Mergansers -	Number of broods seen	_____
Bald Eagles-	Number seen along creek	_____
	Number of nests seen and location	_____
Seals -----	Number seen at mouth of stream	_____
Tide flats -	Estimate length along beach	_____
	Estimate depth out from beach	_____
	Eel grass present on what percent of flats	_____

STREAM INVENTORY FORM

Name: Kerr Creek

Number: 101-75-30D

Observers: R. Larson ()

Date: 11-20-75

Temperature: 36

Weather: Overcast

Station No.

1

Pool Size/Type

2/1

Riffle Type
Width-Depth

23'W

1'D

Pool Riffle
Frequency

2

Bottom Type
(Riffle)

4

Color/Turbidity

1/1

Velocity

2

Flow (C.F.S.)

31.6

Temp. (°F.)

34

pH

5

Fry Abundance

Benthos
Sample No.

Higher Plant
Class

1

Aquatic Veg.
Density
Ident.

3

(1) Mosses

(2) Algae

2

General Remarks (rehab., land use, barriers, log jams, etc.): Charr eggs dug up. Redds evident. Several blood spots in the snow (eagle and mink kills).

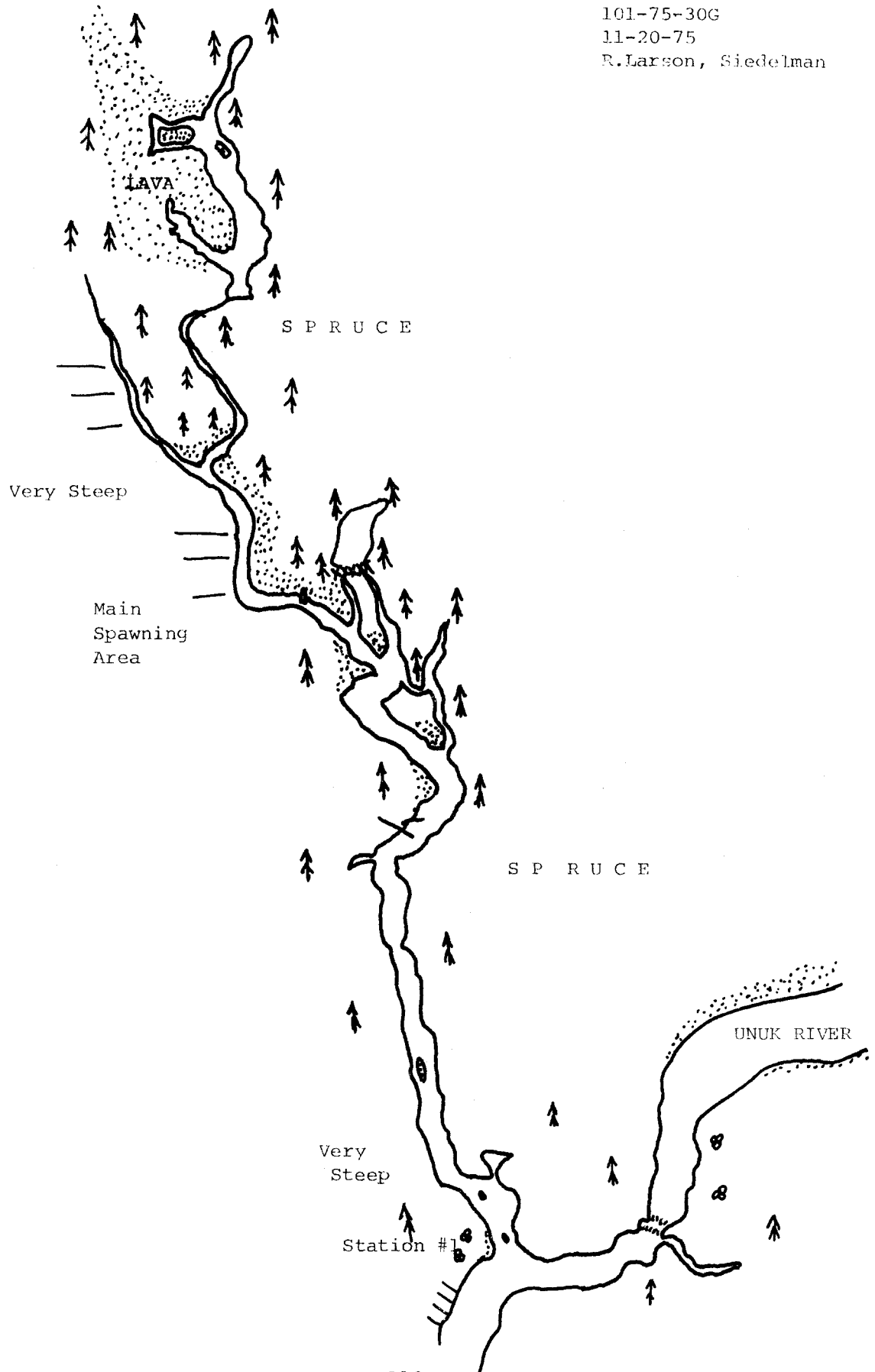
PEAK ESCAPEMENT RECORD

Kerr Creek
101-75-30D

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
8-23-61	16	3	53 kings	
7-63			50 kings	

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Sawmill Creek
101-75-30G
11-20-75
R.Larson, Siedelman



Name Sawmill Creek Catalog No. 101-75-30G
Latitude N 56 14'25" WR No. -
Longitude W 130 52'50" K No. -
Geodetic Map No. Bradfield Canal A-3 Work Area Ketchikan
Location W.side 13.5 mi. Unuk River Watershed Length 3.5 miles
Drainage Area of Watershed 5.2 sq. miles
Water Supply Type Melting snow, precipitation, springs.

Trails & Survey Routes Streambed composed of soft sand and silt in lower section.
Streambank can be walked to barrier.

Aerial Survey Notes Several deep pools thought to be springs may mask some fish
the good spawning area in the upper section may be partially concealed by overhead cover.
Anchorage

Tide Stage When Surveyed

FISHERY RESOURCES

Commercial Fisheries Pink, chum, coho, king, red.

Escapement 8-9-68, 800 pinks, 1963 - 80 kings, 7-29-61 - 80 chums, 45 pinks, 80 kings,
13 reds. spawning area: 604 m² (400'x25'x65% ASA)

Species Composition Incomplete escapement information major king salmon spawning
area.

Timing July-August

Schooling areas Several deep (15-20') pools at upper section of slough.

Shellfish Potential

Sport Fisheries Rainbow, cutthroat, dolly varden probable.

Land Use at Present Recreational hunting and trapping.

History of Land Use Sawmill in area.

Rehabilitation Potential Practicality of removing barrier doubtful.

Soils Subsurface of area and headwaters lava rock. Fine sand and silt in
lower reaches.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	
	Number of droppings	
Geese -----	Number seen on tide flats	
	Number seen up creek	
	Number of broods seen	
Mallards ---	Number seen on tide flats	
	Number seen up creek	
	Number of broods seen	
Mergansers -	Number of broods seen	
Bald Eagles-	Number seen along creek	
	Number of nests seen and location	
Seals -----	Number seen at mouth of stream	
Tide flats -	Estimate length along beach	
	Estimate depth out from beach	
	Eel grass present on what percent of flats	

STREAM INVENTORY FORM

Name: Sawmill Slough Creek

Number: 101-75-30

Observers: R.Larson, D.Siedelman

Date: 11-20-75

Temperature: 34

Weather: Overcast

Station No.	1													
Pool Size/Type	1/1													
Riffle Type Width-Depth														
Pool Riffle Frequency	1													
Bottom Type (Riffle)	1													
Color/Turbidity	1/1													
Velocity	1													
Flow (C.F.S.)														
Temp. (°F.)	39													
pH	5.5													
Fry Abundance	-													
Benthos Sample No.	0													
Higher Plant Class	1													
Aquatic Veg. Density	2													
Ident. (1) Mosses (2) Algae	2													

General Remarks (rehab., land use, barriers, log jams, etc.): 40' wide at mouth. Very sluggish with a soft bottom
No measurable current, 0% ASA much watermoss (Fontinalis sp.) in clear section reported during summer during
1961.

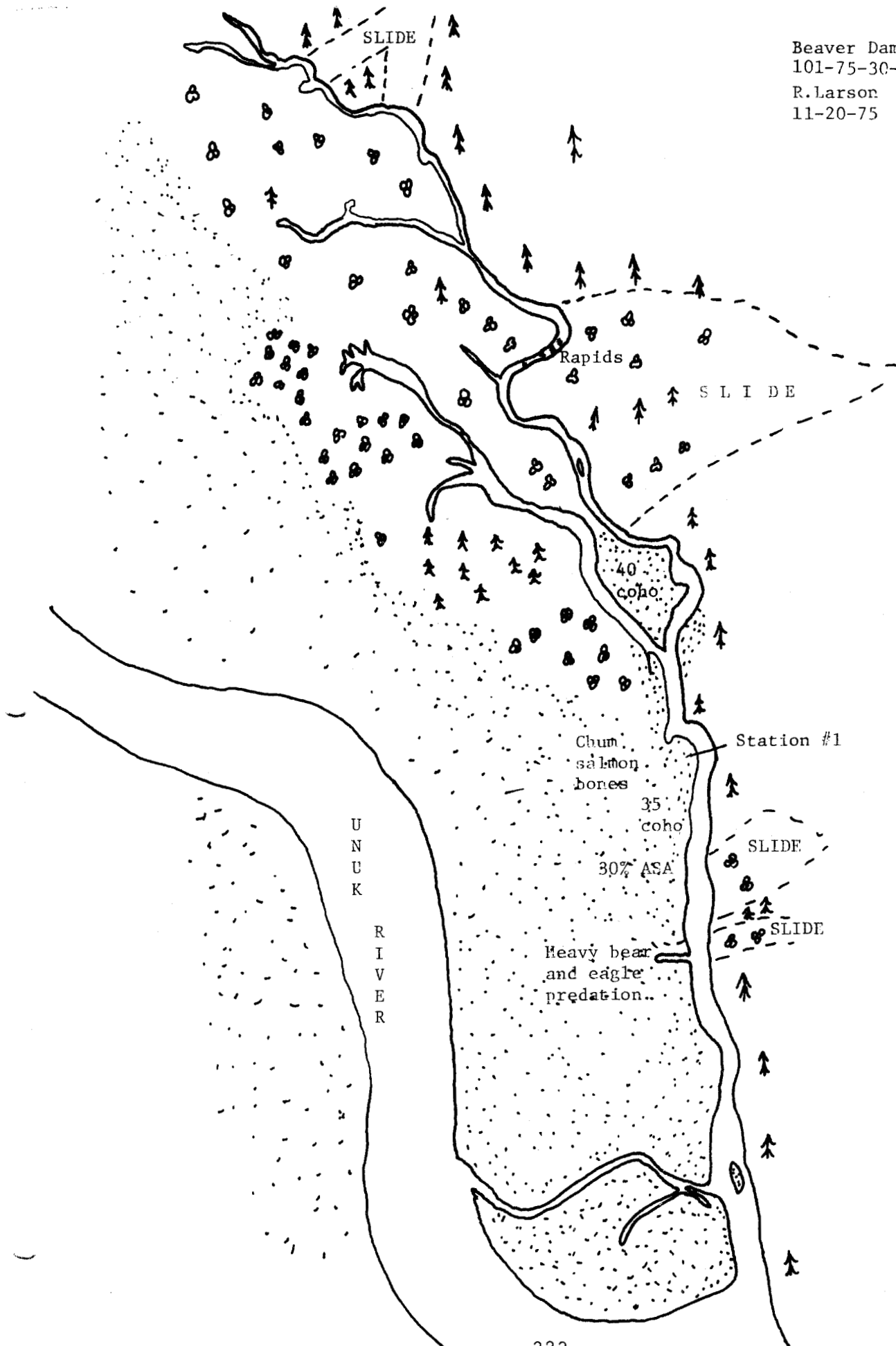
PEAK ESCAPEMENT RECORD

Sawmill Slough
101-75-30G

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
7-29-61	45	80	80 kings, 13 reds	
7-63			80 kings	
8-9-68	800			
8-8-75			8 kings	

- 322 -

Beaver Dam Creek
101-75-30-M
R.Larson
11-20-75



Name Beaver Dam Creek Catalog No. 101-75-30-M
Latitude N 56° 19' 00" WR No. -
Longitude W 130° 45' 50" K No. -
Geodetic Map No. Bradfield Canal B-3 Work Area Ketchikan
Location Mile 23 E. side Unuk River Watershed Length 1 mile
Drainage Area of Watershed .9 sq. miles
Water Supply Type Melting snow, precipitation, groundwater.

Trails & Survey Routes Streambed can be walked at normal or low water levels.

Banks are generally open but can be quite brushy in the upper sections.

Aerial Survey Notes Practical only during the clearwater periods of late fall.

Fish in lower half of stream seen quite easily then.

Anchorage

Tide Stage When Surveyed Not influenced by tide.

FISHERY RESOURCES

Commercial Fisheries Pink, chum, coho

Escapement Only documented escapement 11-20-75: 75 live coho, 10 kills.

Spawning area: 878 m² (20' x 1350' x 35% ASA)

Species Composition

Timing August (pink, chum)

Schooling areas Pool immediately below station.

Shellfish Potential -

Sport Fisheries Spawning area for Dolly Varden

Land Use at Present Recreation and hunting.

History of Land Use Extensive mineral exploration in the area.

Rehabilitation Potential None needed.

Soils Bedload movement during periods when the Unuk floods.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	10
	Number of droppings <u>Several tracks.</u>	
Geese -----	Number seen on tide flats	
	Number seen up creek	
	Number of broods seen	
Mallards ---	Number seen on tide flats	
	Number seen up creek	
	Number of broods seen	
Mergansers -	Number of broods seen	
Bald Eagles-	Number seen along creek	3
	Number of nests seen and location	
Seals -----	Number seen at mouth of stream	
Tide flats -	Estimate length along beach	
	Estimate depth out from beach	
	Eel grass present on what percent of flats	

STREAM INVENTORY FORM

Observers: R. Larson ()

Date: 11-20-75

Name: Beaver Dam Creek

Temperature: 34°

Number: 101-75-30-M

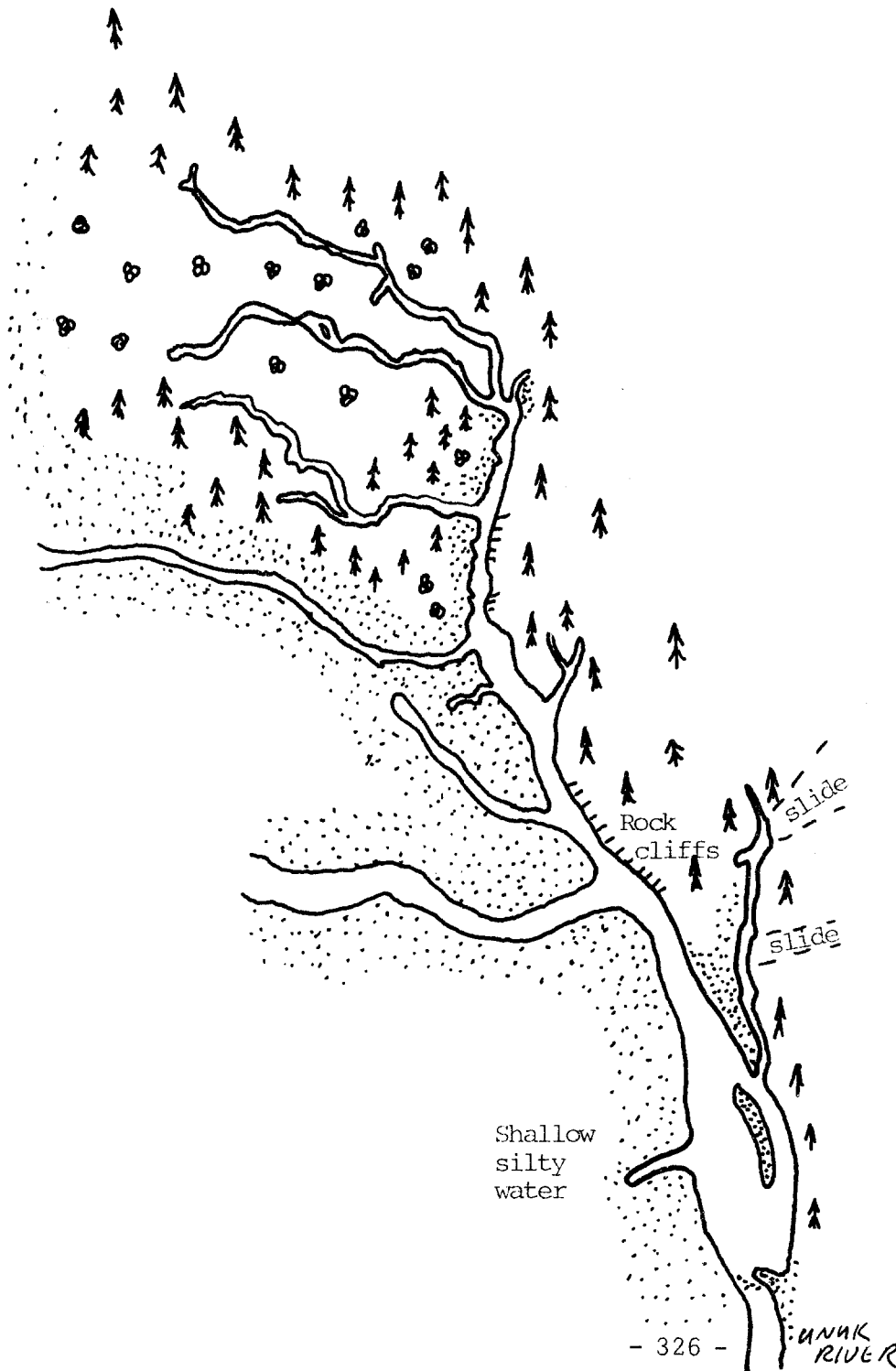
Weather: Overcast

- 325 -

Station No.	1														
Pool Size/Type	1/1														
Riffle Type	21' W														
Width-Depth	.4'D														
Pool Riffle Frequency	2														
Bottom Type (Riffle)	4														
Color/Turbidity	1/1														
Velocity	2														
Flow (C.F.S.)	6.4														
Temp. (°F.)	37°														
pH	6.5														
Fry Abundance	0														
Benthos Sample No.															
Higher Plant Class	1														
Aquatic Veg. Density	2														
Ident.															
(1) Mosses	2														
(2) Algae															

General Remarks (rehab., land use, barriers, log jams, etc.): Evidence of previous chum salmon. Otter, bear and moose sign.

Cottonwood Creek
101-75-30N
11-20-75
Larson, Siedelman, Ahrendt



Name Cottonwood Creek Catalog No. 101-75-30N
Latitude N 56°17'30" WR No. -
Longitude W130°47'00" K No. -
Geodetic Map No. Bradfield Canal B-3 Work Area Ketchikan
Location mi. 20.5 E side Unuk River Watershed Length 3 miles (major trib, includ
Drainage Area of Watershed 2.1 sq. miles.
Water Supply Type Melting snow, precipitation, groundwater.

Trails & Survey Routes Stream can be easily walked during period of low water.

Aerial Survey Notes Only practical for lower stream during times when water is clear.

Anchorage

Tide Stage When Surveyed Not influenced by tidal action.

FISHERY RESOURCES

Commercial Fisheries Chum, pink and coho.

Escapement Only 2 documented surveys: 8-61, 76 chum, 2 pink; 11-30-75, 2 coho (1000' x 19" x 35% ASA) Spawning area 618 m².

Species Composition Chum major species.

Timing August (pink, chum)

Schooling areas

Shellfish Potential

Sport Fisheries Dolly Varden spawning area.

Land Use at Present Recreational hunting.

History of Land Use Extensive mineral exploration

Rehabilitation Potential None needed.

Soils Bedload transport when UNUK R. floods.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	<u>3</u>
	Number of droppings	<u></u>
Geese -----	Number seen on tide flats	<u></u>
	Number seen up creek	<u></u>
	Number of broods seen	<u></u>
Mallards ---	Number seen on tide flats	<u></u>
	Number seen up creek	<u></u>
	Number of broods seen	<u></u>
Mergansers -	Number of broods seen	<u></u>
Bald Eagles-	Number seen along creek	<u></u>
	Number of nests seen and location	<u></u>
Seals -----	Number seen at mouth of stream	<u></u>
Tide flats -	Estimate length along beach	<u></u>
	Estimate depth out from beach	<u></u>
	Eel grass present on what percent of flats	<u></u>

STREAM INVENTORY FORM

Name: Cottonwood Creek

Number: 101-75-30N

Observers: Larson, Siedel, Ahrendt

Date: 11-20-75

Temperature: 35°

Weather: Overcast

Station No.

1

Pool Size/Type

1/2

Riffle Type
Width-Depth

19'W
.3'D

Pool Riffle
Frequency

2

Bottom Type
(Riffle)

1/4 (sand mixed with 1/2"-1 1/2" gravel)

Color/Turbidity

1/1

Velocity

2

Flow (C.F.S.)

3.9

Temp. (°F.)

40°

pH

6.5

Fry Abundance

0

Benthos
Sample No.

Higher Plant
Class

1

Aquatic Veg.
Density
Ident.

3

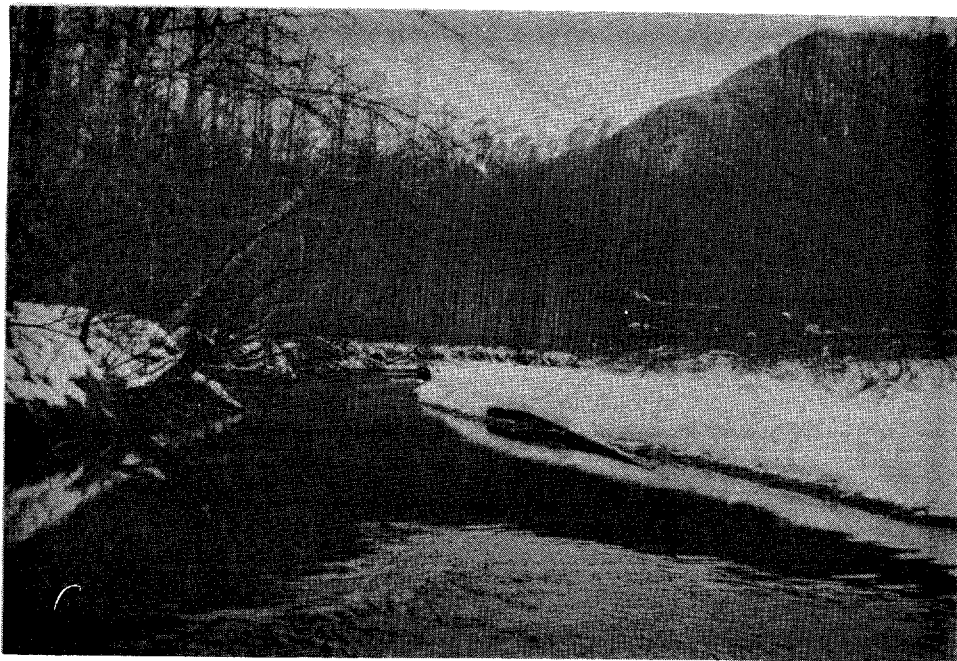
(1) Mosses

(2) Algae

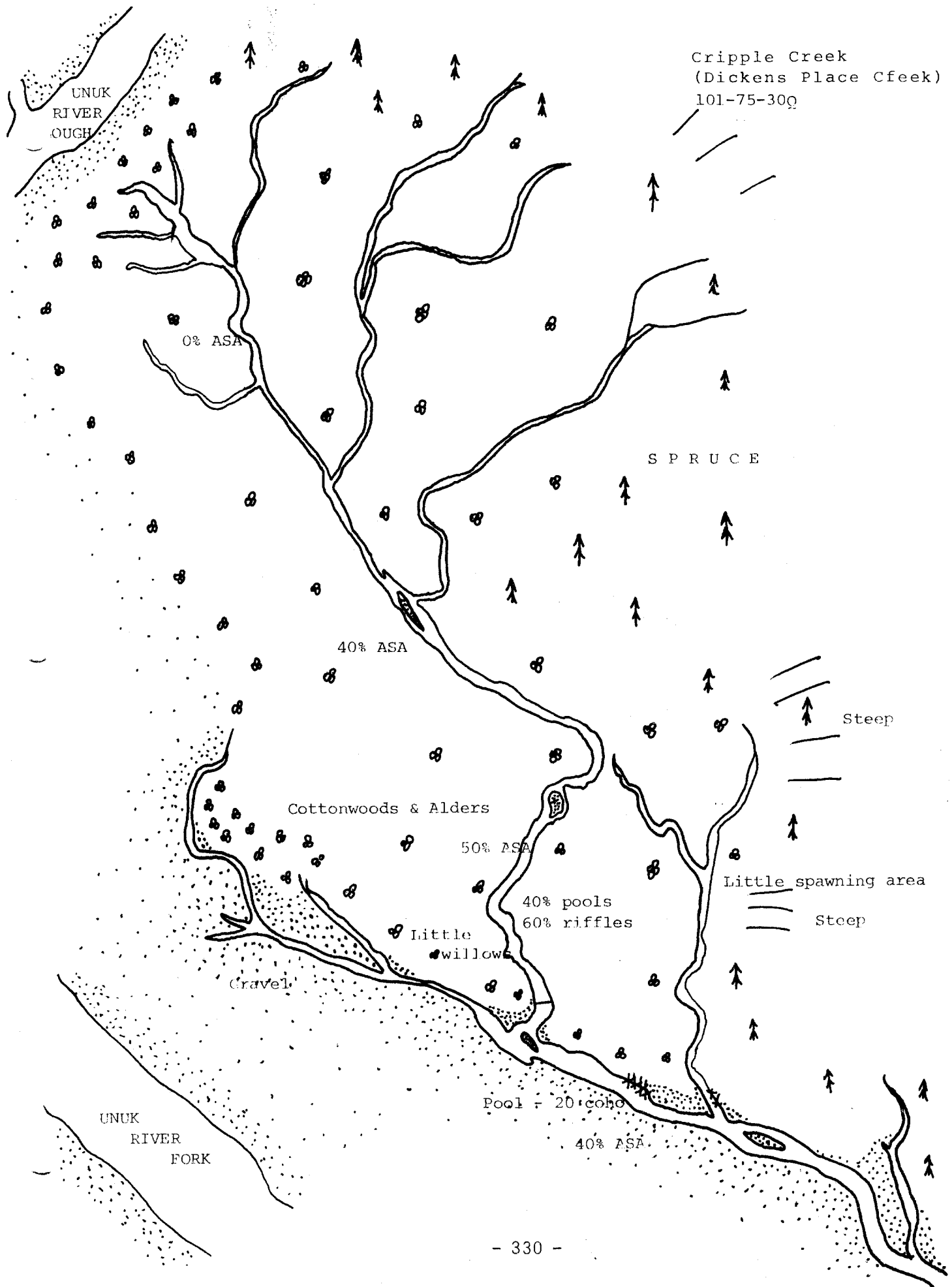
2

General Remarks (rehab., land use, barriers, log jams, etc.):

Some cottonwood trees. 2 live coho, several redds.



CRIPPLE CREEK
(Dickens Place Creek)



PEAK ESCAPEMENT RECORD

Cripple Creek

101-75-30Q

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
8-10-58	4		80 kings	
8-9-68	2,500		475 kings	
8-15-69	20		25 kings	
8-9-72	1100		95 kings	
8-5-73		325	65 kings	
8-1-74			20-30 kings	
8-17-75	600	75	17 kings	

- 331 -

Name Cripple Creek Catalog No. 101-75-300
Latitude N 56 16' WR No. _____
Longitude W 130 47'45" K No. _____
Geodetic Map No. Bradfield Canal B-3 Work Area Ketchikan
Location E. side Unuk R immed. above 1st canyon Watershed Length 7 miles, major trib. inc.
Drainage Area of Watershed 11 sq. miles
Water Supply Type Melting snow, precipitation, groundwater.

Trails & Survey Routes Stream bed and banks can be easily walked at low water.

Aerial Survey Notes Only practical when water clears in fall; the upper areas of the clearwater streams may be partially concealed by overhead cover.

Anchorage _____

Tide Stage When Surveyed _____

FISHERY RESOURCES

Commercial Fisheries Pink, chum, king, coho

Escapement 105 chum, 12 pink, 3 king (others concealed by glacial water) 11-20-75
20 live, 5 kills coho. 8-9-68, 475 kings. Spawning area 5806 m² (5000'x25'x50%ASA)

Species Composition Major king salmon producer. Considerable number of pinks at times.

Timing July-August.

Schooling areas _____

Shellfish Potential _____

Sport Fisheries Rainbow, dolly varden trout, cutthroat.

Land Use at Present Recreational hunting.

History of Land Use Mineral exploration in area.

Rehabilitation Potential None needed.

Soils Lower section subject to bed load movement when the Unuk River floods.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	5
	Number of droppings	
Geese -----	Number seen on tide flats	
	Number seen up creek	
	Number of broods seen	
Mallards ---	Number seen on tide flats	
	Number seen up creek	
	Number of broods seen	
Mergansers -	Number of broods seen	
Bald Eagles-	Number seen along creek	
	Number of nests seen and location	1
Seals -----	Number seen at mouth of stream	
Tide flats -	Estimate length along beach	
	Estimate depth out from beach	
	Eel grass present on what percent of flats	

STREAM INVENTORY FORM

Name: Cripple Creek

Number: 101-75-30

Observers: R. Larson, D. Siedelman

Date: 11-20-75

Temperature: 34

Weather: Overcast

Station No.

1

Pool Size/Type

1/2

Riffle Type
Width-Depth

24'W

Pool Riffle
Frequency

2

Bottom Type
(Riffle)

4

1/2-2"

Color/Turbidity

1/1

Velocity

2

Flow (C.F.S.)

11

Temp. (°F.)

36

pH

6

Fry Abundance

Benthos
Sample No.

Higher Plant
Class

4

Alder & Cottonwood

Aquatic Veg.
Density

2

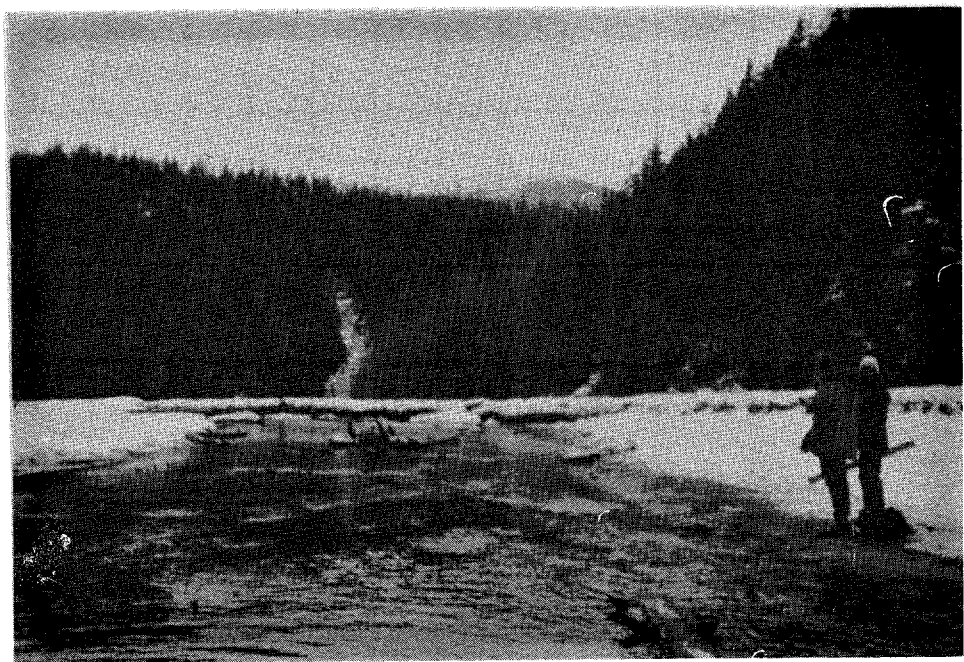
Ident.

(1) Mosses

(2) Algae

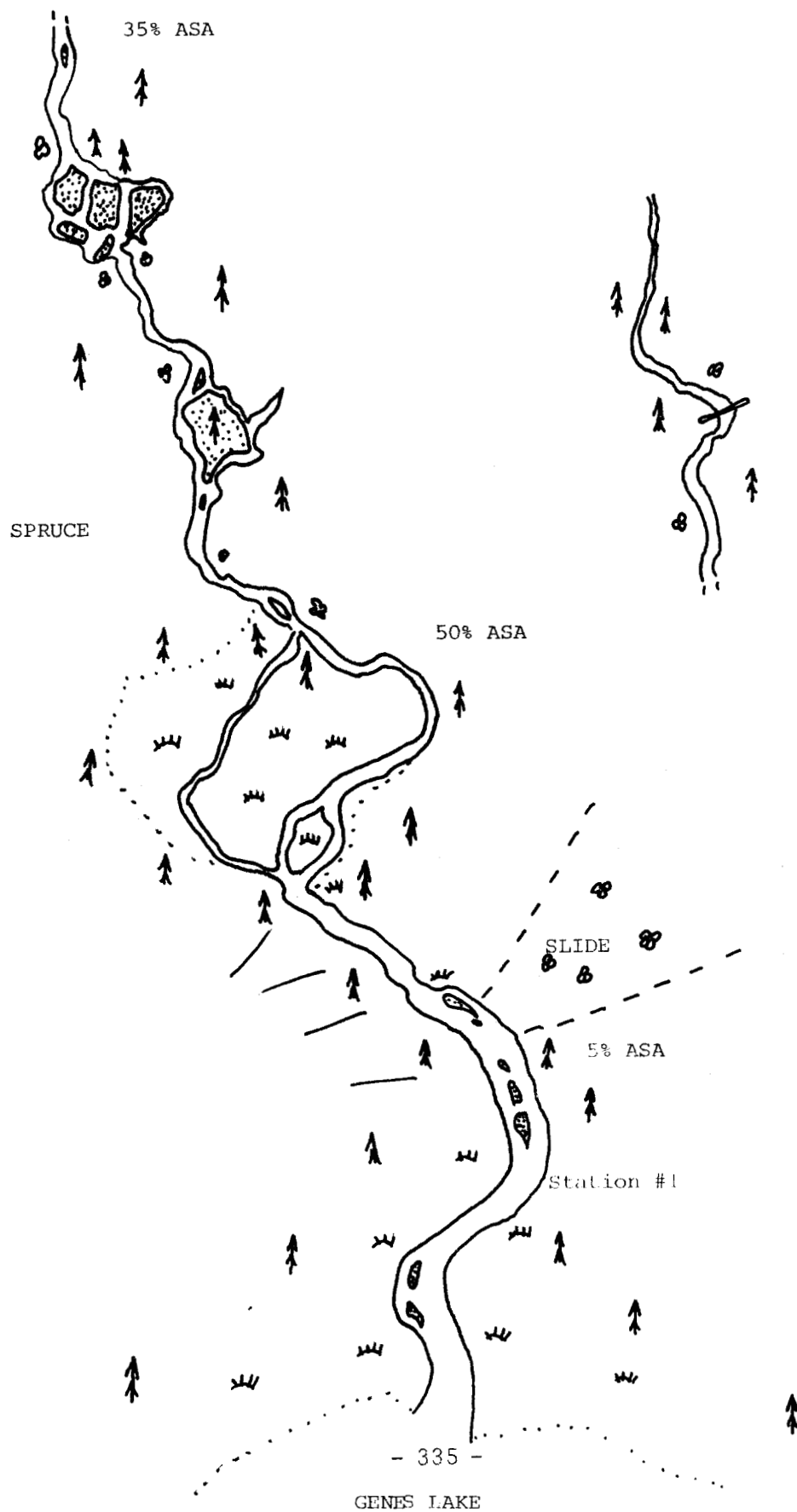
2

General Remarks (rehab., land use, barriers, log jams, etc.):



GENE'S CREEK

Gene's Lake Creek
101-75-30R
11-20-75
R.Larson, Siedelman



Name Gene's Lake Creek Catalog No. 101-75-30R
 Latitude N 56 12'15" WR No. _____
 Longitude W 130 53'30" K No. _____
 Geodetic Map No. Bradfield Canal A-3 Work Area Ketchikan
 Location Mile 12 W. side Unuk River Watershed Length 8 miles (from lake)
 Drainage Area of Watershed 11.6 sq. miles
 Water Supply Type Approximately 240 acre lake at outlet of main creek, precipitation, melting snow.
 Trails & Survey Routes Considerable areas of grass on banks, streambed can be walked easily at low or normal water levels.
 Aerial Survey Notes Clear water stream, steep hillsides, light colored bottom in lower section.
 Anchorage _____

Tide Stage When Surveyed _____

FISHERY RESOURCES

Commercial Fisheries Pink, chum, king, coho, red.

Escapement 8-10-58 - 130 kings, 60 reds, 10 coho. 7-29-61 - 10 chum, 10 pink, 200 king, 400 red. 1963 - 45 kings. 8-75 - 0. Spawn. Area 9406m² 30'x7500'x45% ASA)
 Species Composition Information lacking, major king salmon producer.

Timing July-August

Schooling areas In head of lake.

Shellfish Potential _____

Sport Fisheries Excellent at times. Rainbow, dolly varden, cutthroat present.

Land Use at Present Recreational hunting and fishing.

History of Land Use Mineral exploration.

Rehabilitation Potential None needed.

Soils Lower streambed very fine grained material, generally stable throughout.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	<u>5</u>
	Number of droppings	_____
Geese -----	Number seen on tide flats	_____
	Number seen up creek	_____
	Number of broods seen	_____
Mallards ----	Number seen on tide flats	_____
	Number seen up creek	_____
	Number of broods seen	_____
Mergansers -	Number of broods seen	_____
Bald Eagles--	Number seen along creek	<u>1</u>
	Number of nests seen and location	_____
Seals -----	Number seen at mouth of stream (Seals reported in lake)	_____
Tide flats -	Estimate length along beach	_____
	Estimate depth out from beach	_____
	Eel grass present on what percent of flats	_____

STREAM INVENTORY FORM

Observers: R.Larson, D.Siedelman

Date: 11-20-75

Name: Gene's Lake Creek (Upper)

Temperature: 34

Number: 101-75-30

Weather: overcast

Station No.	1																
Pool Size/Type	2/2																
Riffle Type Width-Depth	34' W																
Pool Riffle Frequency	2																
Bottom Type (Riffle)	1-2																
Color/Turbidity	1/1																
Velocity	2																
Flow (C.F.S.)	19																
Temp. (°F.)	36																
pH	5																
Fry Abundance	0																
Benthos Sample No.																	
Higher Plant Class	1																
Aquatic Veg. Density	2																
Ident. (1) Mosses (2) Algae	2																

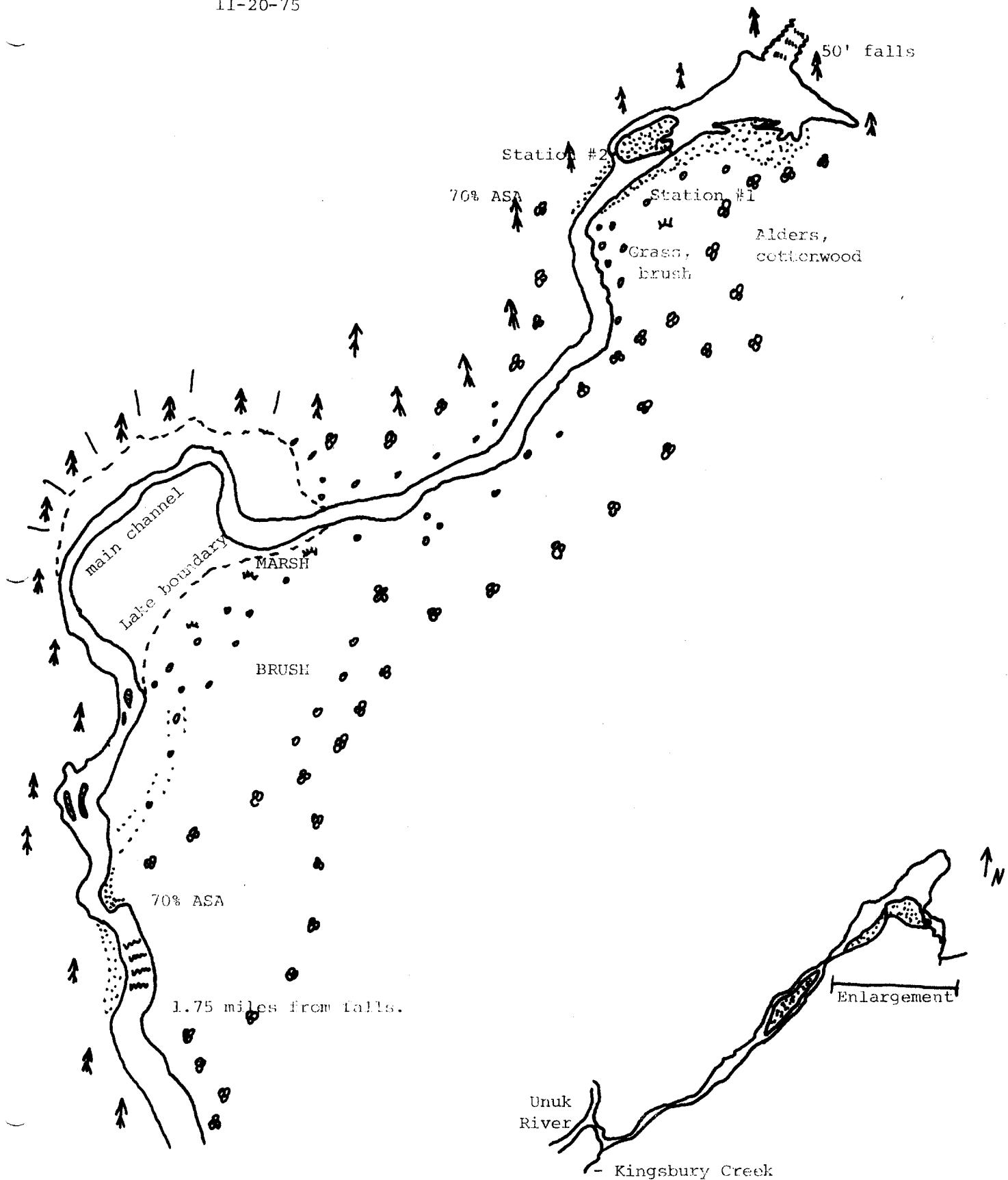
General Remarks (rehab., land use, barriers, log jams, etc.): Pink bones on bank.

PEAK ESCAPEMENT RECORD

Genes Lake Creek
101-75-30R

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
8-10-58			130 kings, 60 red, 10 coho.	
7-29-61	10	10	200 kings, 400 reds	
7-63			40-50 kings	
8-15-69			2 kings	
8-9-72	900		30 kings	
8-5-73	140		2 kings	
8-8-75			0 kings	
- 338 -				

101-75-30T
Lake Creek
Robert Larson
11-20-75



Name Lake Creek Catalog No. 101-75-30T
Latitude N 56 08' WR No. _____
Longitude W130 58' 5" K No. _____
Geodetic Map No. Bradfield C. A-3 Work Area Ketchikan
Location W.side 6 mi. Unuk River Watershed Length Approx. 23 miles, 19 mi. U.S.
Drainage Area of Watershed Approx. 87 sq. mi. 72 miles in U.S.
Water Supply Type Glacier, melting snow, precipitation.

Trails & Survey Routes An airplane can be landed 1/2 mile below falls. A river skiff can negotiate creek to riffles below falls.

Aerial Survey Notes Visibility restricted much of year due to turbidity of water.

Anchorage _____

Tide Stage When Surveyed _____

FISHERY RESOURCES

Commercial Fisheries Pink, chum, king, coho

Only good spawning area 3 miles upstream from mouth below falls.

Escapement Spawning area = 3261 m²

(45'x400'x70% + 45'x2500'x20%)

Species Composition Not enough escapement surveys.

Important king salmon producer.

Timing July-August

Schooling areas Pool below falls.

Shellfish Potential _____

Sport Fisheries Excellent at times - cutthroat, rainbow and Dolly Varden.

Land Use at Present Recreational hunting and fishing, trapping.

History of Land Use Mineral exploration.

Rehabilitation Potential None needed.

Soils Much of area low and marshy. Streambed of fine grained material for most of the length.

GAME RESOURCES

Bear ----- Fish carcasses or bones (old or fresh) on banks, estimate
Number of droppings Tracks.

Geese ----- Number seen on tide flats
Number seen up creek

Mallards --- Number of broods seen
Number seen on tide flats
Number seen up creek

Merquansers - Number of broods seen

Bald Eagles- Number seen along creek

Number of nests seen and location

Seals ----- Number seen at mouth of stream

Tide flats - Estimate length along beach

Estimate depth out from beach

Eel grass present on what percent of flats

STREAM INVENTORY FORM

Observers: Larson, Siedel, Ahrendt

Date: 11-20-75

Name: Falls Creek

Temperature: 34

Number: 101-75-30T

Weather: Overcast

Station No.	1	2													
Pool Size/Type	1/1	1/1													
Riffle Type Width-Depth	46'W	30'W													
Pool Riffle Frequency	1	1													
Bottom Type (Riffle)	4	4													
Color/Turbidity	1/1	1/1													
Velocity	2	2													
Flow (C.F.S.)	149														
Temp. (°F.)	35	35													
pH	5	5													
Fry Abundance	0	0													
Benthos Sample No.															
Higher Plant Class	1	1													
Aquatic Veg. Density	3	3													
Ident. (1) Mosses (2) Algae	2	2													

General Remarks (rehab., land use, barriers, log jams, etc.):

1 coho (female).

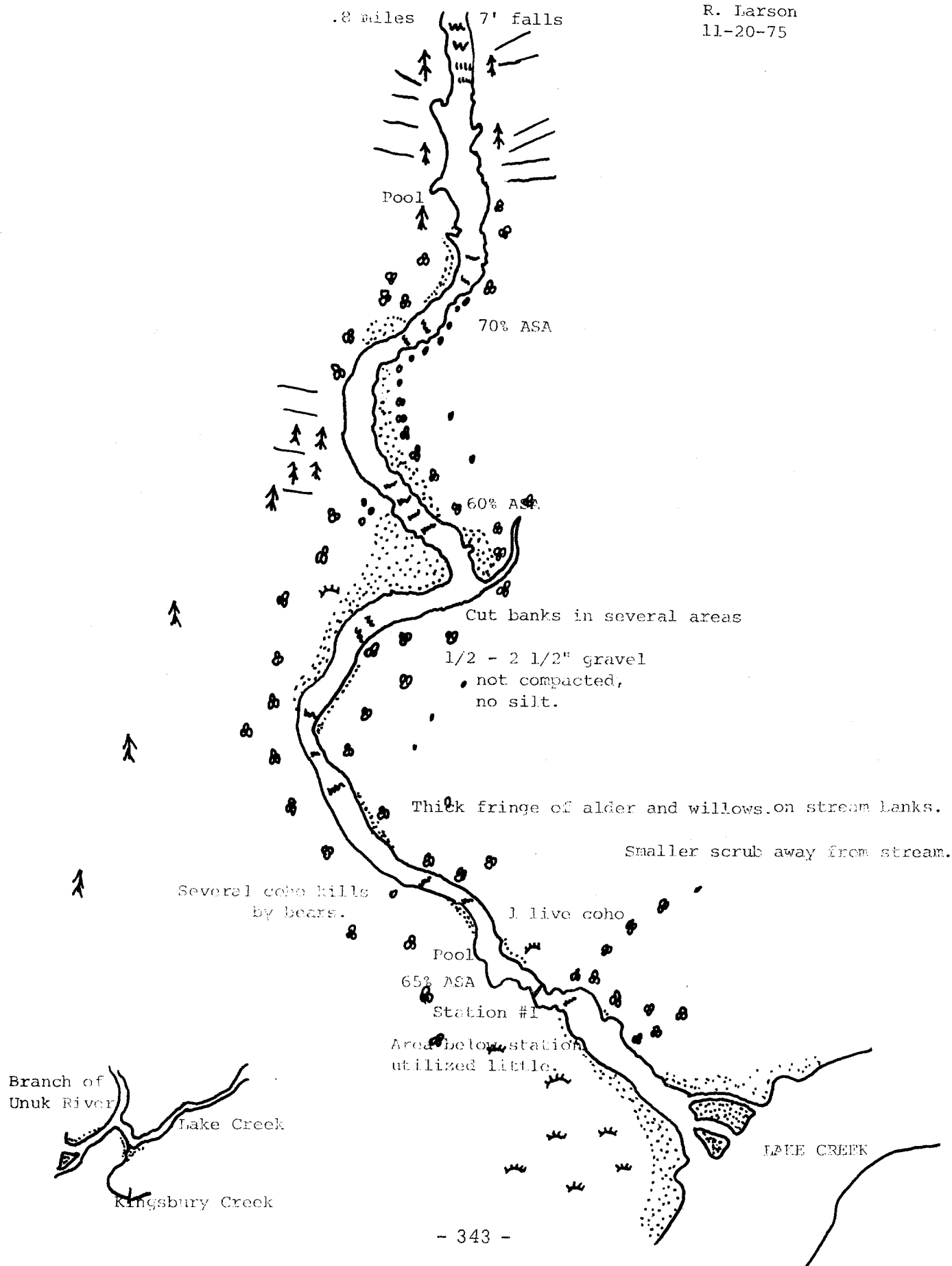
red covered bottom (iron?)

PEAK ESCAPEMENT RECORD

Lake Creek
101-75-30T

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
7-14-49				No fish seen.
7-26-51				200 fish
8-10-52	500	220	25 red	20 dead pink, 50 dead chum.
8-10-58	Many	Some	Many kings	
8-16-61	23	1		
7-63			35-40 kings	
8-9-68	300	50	25 kings	
8-15-69			1 king	
8-20-72		650	55 kings 150 red	
8-5-73	20			
8-1-74			10 kings	
8-8-75			10 kings	8-12, 15 pinks, 5 kings
- 342 -				

Kingsbury Creek
 101-75-30U
 R. Larson
 11-20-75



Name Kingsbury Creek Catalog No. 101-75-30U
 Latitude N 56 07' 45" WR No. _____
 Longitude W 130 57' 50" K No. _____
 Geodetic Map No. Bradfield C. A-3 Work Area Ketchikan
 Location S.shore Lake Cr. 400 yds. fr. Unalutka Watershed Length 9 miles. Maj. trib.included.
 Drainage Area of Watershed 14 sq. miles
 Water Supply Type Precipitation, melting snow,

Trails & Survey Routes Streambed can be walked to falls at normal or low water levels. Banks are quite brushy in lower section.

Aerial Survey Notes First 1/4 mile easily surveyed. Several pools may mask some fish.

Anchorage _____

Tide Stage When Surveyed _____

FISHERY RESOURCES

Commercial Fisheries Pink, chum, king, red, coho

Escapement Spawning area : 6122 m²
(26'x4224'x60%) Scarse number of surveys.

Species Composition Important spawning area for kings and coho.

Timing _____

Schooling areas Lower portion of Lake Creek.

Shellfish Potential -

Sport Fisheries None observed. Probably spawning area for cutthroat, rainbow, and Dolly Varden.

Land Use at Present Recreational hunting, trapping.

History of Land Use Mineral exploration.

Rehabilitation Potential Falls are associated with steep gradient. Should be examined in future for alteration feasibility.

Soils Stable.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	<u>7</u>
	Number of droppings <u>Fresh tracks.</u>	
Geese -----	Number seen on tide flats	
	Number seen up creek	
	Number of broods seen	
Mallards ---	Number seen on tide flats	
	Number seen up creek	
	Number of broods seen	
Wrensers -	Number of broods seen	
Bald Eagles-	Number seen along creek	<u>1</u>
	Number of nests seen and location	
Seals -----	Number seen at mouth of stream	
Tide flats -	Estimate length along beach	
	Estimate depth out from beach	
	Eel grass present on what percent of flats	

STREAM INVENTORY FORM

Name: Kingsbury Creek (Clear)

Number: 101-75-30U

Observers: R. Larson, Siedman, Ahrendt

Date: 11-20-75

Temperature: 34

Weather: Overcast.

Station No.

Pool Size/Type

Riffle Type
Width-Depth

Pool Riffle
Frequency

Bottom Type
(Riffle)

Color/Turbidity

Velocity

- 345 -
Flow (C.F.S.)

Temp. (°F.)

pH

Fry Abundance

Benthos
Sample No.

Higher Plant
Class

Aquatic Veg.
Density

Ident.

(1) Mosses

(2) Algae

1															
1/2															
26'w															
3															
4															
1/1															
2															
17															
35															
5															
0															
1															
3															
2															

General Remarks (rehab., land use, barriers, log jams, etc.): 1 coho. Bear and martin sign. 7 carcasses in snow.

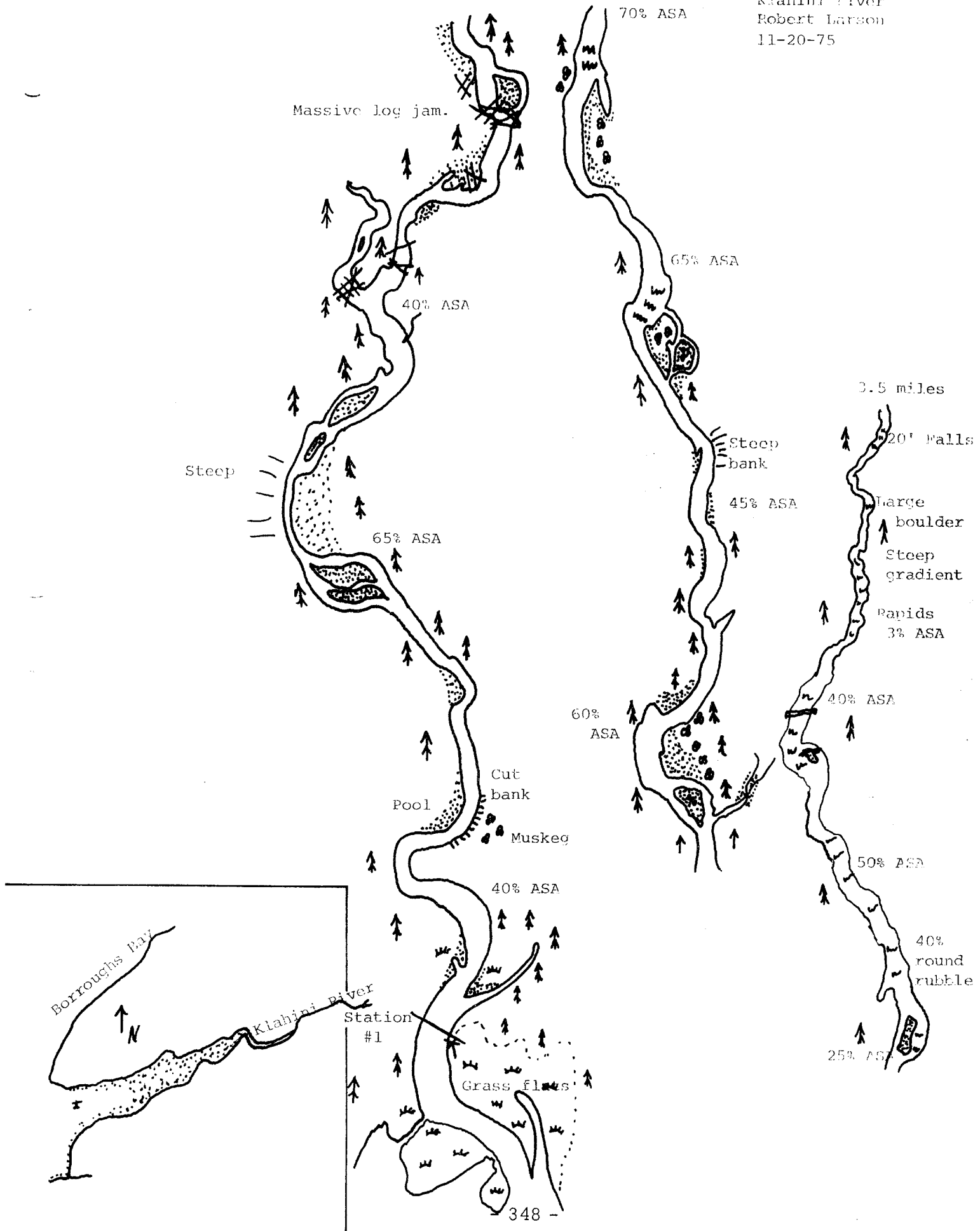
Kingsbury Creek (Clear Creek)
101-75-30U

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
8-10-58	3,000+	330	70 kings, 30 reds	
7-27-61	28	550	65 kings, 63 reds	
8-9-68	4,500			
8-20-72		1500	90 kings	400-500 dead. 3500 pinks & chum 8-9.
8-5-73	350		17 kings	
8-17-75	950		45 kings	
- 346 -				



Klahini River, station #1

Klahini River
Robert Larson
11-20-75



Name Klahini River Catalog No. 101-75-50
 Latitude N 56 03' 15" WP No. 43A
 Longitude W 130 02' 53" K No. 47
 Gridsheet Map No. Bradfield C. A-4 Work Area Ketchikan
 Location S. side Burroughs B. 2 mi. from head Watershed Length 16 miles
 Drainage Area of Watershed 100 sq. miles (polar planimeter)
 Water Supply Type Glaciers, snowfield and precipitation.

Trails & Survey Routes Game trails along bank. Stream can be hiked to barrier falls during normal water levels.

Aerial Survey Notes Wide valley and stream plus light colored bottom makes aerial survey efficient method of salmon enumeration.

Anchorages Forest Service float inside of point between Unuk and Klahini Rivers on North shore.

Tide Stage When Surveyed _____

FISHERY RESOURCES

Commercial Fisheries Pink, chum, coho and king

Escapement Hi esc. 30,000 pink 8-50. Hi chum 30,400 '50. Hi pink esc. since 1961 20,000 '70. Low esc. since '61: 200 '65. 14 yr. ave. since '61: 7457.

(50'x15,000'x45%) Spawning area = 31,354 m².

Species composition: Presently mostly pink, has been important chum producer.

Timing Early - July, Aug.

Schooling areas _____

Shellfish Potential Dungeness crab are found in shallow areas throughout Burroughs Bay.

Sport Fisheries Rainbow, cutthroat and Dolly Varden trout.

Land Use at Present Recreational hunting and fishing. Important feeding and resting area for migrating waterfowl.

History of Land Use Unknown.

Rehabilitation Potential No rehabilitation needed to increase salmon production potential.

Soils Generally stable, little braiding.

WET RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	10
	Number of droppings	2
Beese -----	Number seen on tide flats	
	Number seen up creek	
	Number of broods seen	
Mallards ---	Number seen on tide flats	9
	Number seen up creek	
	Number of broods seen	
Mergansers -	Number of broods seen	2
Bald Eagles-	Number seen along creek	3
	Number of nests seen and location	
Osprey -----	Number seen at mouth of stream	2
Tide flats -	Estimate length along beach	
	Estimate depth out from beach	
	Est. grass present on what percent of flats	

STREAM INVENT Y FORM

Observers: R. Larson & D. () d

Date: 9-24-75

Name: Klahini River

Temperature: 52

Number: 101-75-50

Weather: Rainy

Station No.
Pool Size/Type
Riffle Type
Width-Depth
Pool Riffle
Frequency
Bottom Type
(Riffle)
Color/Turbidity
Velocity
- 350 -
Flow (C.F.S.)
Temp. (°F.)
pH
Fry Abundance
Benthos
Sample No.
Higher Plant
Class
Aquatic Veg.
Density
Ident.
(1) Mosses
(2) Algae

1																			
3/2																			
135'W .91'D																			
3																			
4																			
1/1																			
2																			
330																			
46																			
5																			
1																			
3																			
1																			

General Remarks (rehab., land use, barriers, log jams, etc.):

PEAK ESCAPEMENT RECORD

Klahini
101-75-50

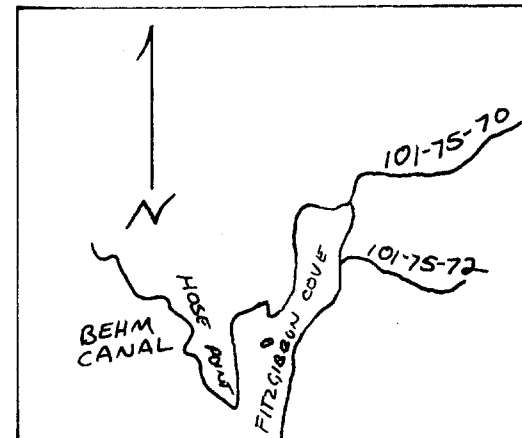
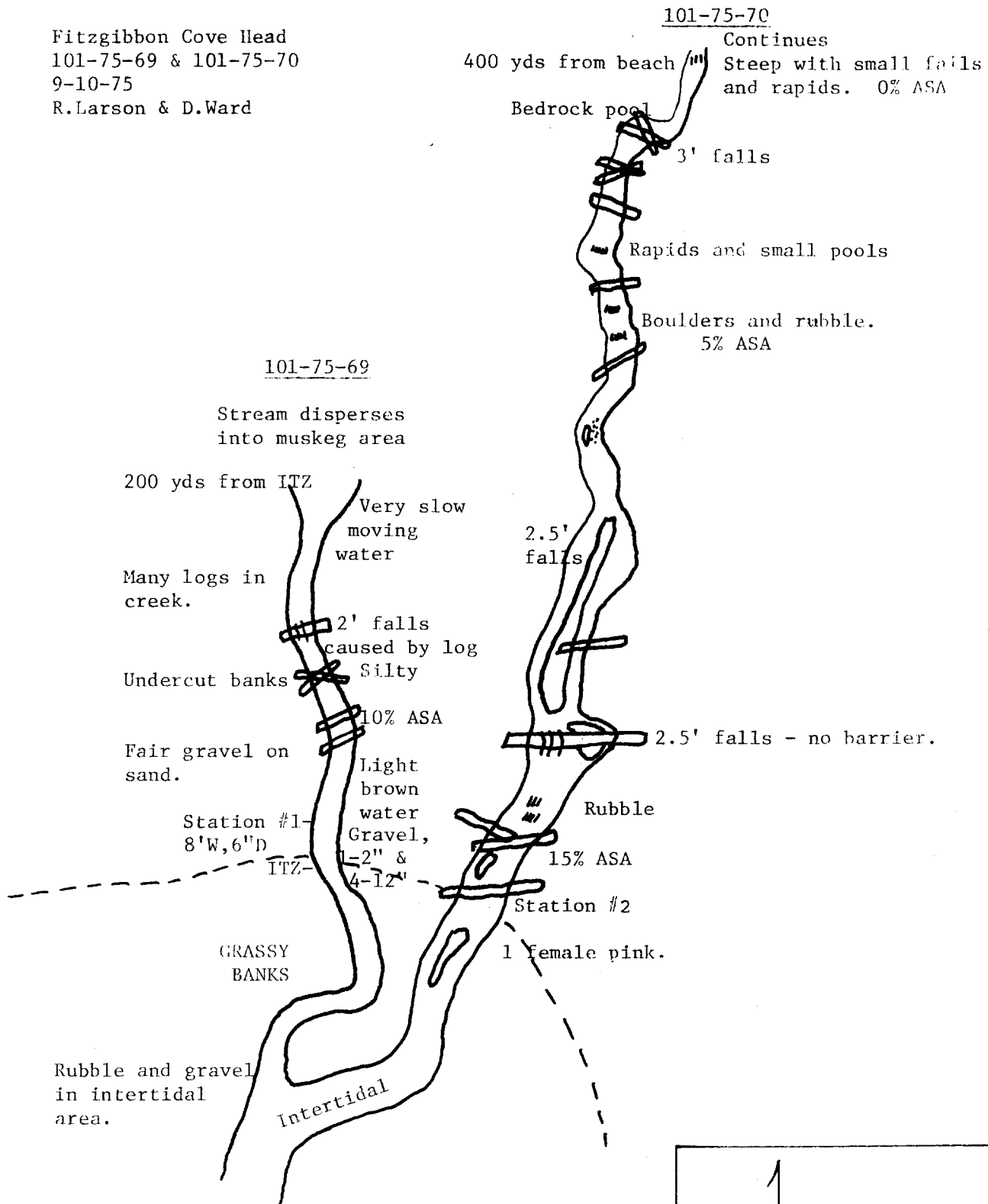
DATE	PINK	CHUM	OTHER SPECIES	REMARKS
9-16-43				I.T. Few, mainly brights.
9-10-47				I.T. 30-35 dead pink.
9-9-48				Poor pink, fair chum.
9-23-49	18,000	4,000		4500 dead pink, 1000 dead chum
8-4-50	30,000	30,000 on 8-2		400 dead chum.
8-2-51	11,250	5,650	7 kings	Many dead pink, 400 dead chum, many fish overlooked.
8-12-52	3,860	1,070		104 dead pink, 400 dead chum.
8-3-53	4,000	1,670	17 king. 41 kings on 8-23	
8-3-54	1,000	800		Visibility not good.
7-31-55	3,000	1,000		
8-16-56	9,000	1,000		
7-31-57	2,000	6,000		
9-1-60	100	50		All spawning.
8-2-61	500	3,500		Most spawning. High peak escape- ment pinks 3,700 7-25.
7-31-62	3,900			Schooled in stream.
8-3-63	2,500	100		Good vis. in stream. I.T. area glacial. N.O. I.T.
8-4-64		19,600		Visibility fair.
8-16-65	200			500 chum on 8-3. Vis. excellent.
7-12-66	11,500			Few at I.T. Vis good. 1500 dead
7-31-67	200	2,600		Visibility good.
7-29-68	12,000	1,600		1500 @ I.T., 200 @ mouth. Vis. ex. Chums spawning heavily.
8-1-69	700	200		Visibility fair.
8-4-70	11,000	2,200		I.T. included in stream count.
8-31-71	1,400			400 chums on 8-12.

PEAK ESCAPEMENT RECORD

Klahini
101-75-50

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
8-9-72	19,000	4,200		6 balls @ mouth. Visibility good.
8-17-73	1,800	50%		Visibility good.
8-15-74		6,000		1000 dead. Visibility good.
8-18-75	2,000	1,500		1000 dead chum. Vis. excellent. 600 @ I.T.
- 352 -				

Fitzgibbon Cove Head
 101-75-69 & 101-75-70
 9-10-75
 R.Larson & D.Ward



Name Fitzgibbon Cove Head Catalog No. 101-75-69 & 101-75-70
 Latitude N 55° 59' 14" WR No. _____
 Longitude W 131° 10' 25" K No. _____
 Geodetic Map No. Ketchikan D-4 Work Area Ketchikan
 Location Behm C. Fitzgibbon Cove R. Head Watershed Length 2 miles
 Drainage Area of Watershed 1.8 sq. miles (polar planimeter)
 Water Supply Type Precipitation

Trails & Survey Routes Streambed can be walked at normal water levels.

Aerial Survey Notes This stream is too small to survey by air.

Anchorage Excellent anchorage in the inner cove.

Tide Stage When Surveyed Low.

FISHERY RESOURCES

Commercial Fisheries Is a small creek without much good spawning or rearing area and thus would not have much potential for fishery production.

Escapement No records of previous escapements. 9-10-75, 1 female pink. Total spawning area: 133 m² (1200'L x 10'W x 10% ASA) + (600'L x 8'W x 5% ASA)

Species Composition Probably all pink.

Timing _____

Schooling areas Off mouth of creek.

Shellfish Potential Good crab fishery in bay.

Sport Fisheries None

Land Use at Present None

History of Land Use Unknown

Rehabilitation Potential None

Soils Much rock with thin cover of forest duff.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	2 adults
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	400 yds.
	Estimate depth out from beach	200 yds
	Eel grass present on what percent of flats	thin fringe at
	1 otter in the creek.	0 tide.

STREAM INVENTORY FORM

Observers: R. Larson, Ward

Date: 9-10-75

Temperature: 48°

Weather: Clear

Name: Fitzgibbon Cove

Number: 101-75-69 & 70

Left Right

Station No.

Pool Size/Type

Riffle Type
Width-Depth

Pool Riffle
Frequency

Bottom Type
(Riffle)

Color/Turbidity

Velocity

Flow (C.F.S.)

Temp. (°F.)

pH

Fry Abundance

Benthos
Sample No.

Higher Plant
Class

Aquatic Veg.
Density

Ident.

(1) Mosses

(2) Algae

1	2														
2/2	2/2														
8'W .44'D	14'W .6'D														
1	2														
4	4/5														
2/2	2/2														
2	2														
1.5	3.13														
48°	46														
4.5	4.5														
	8-1														
3	2														
2	2														
2	2														

General Remarks (rehab., land use, barriers, log jams, etc.): Is very small stream; is included because it may have some rearing potential.

PEAK ESCAPEMENT RECORD

Fitzgibbon Cove
101-75-70

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
9-9-75				1 @ I.T. Walked to barrier.

Lakes - 300 yds
upstream.

Fitzgibbon Cove
101-75-72
9-9-75
R. Larson

500 yds from beach

Continues steep

Steep slopes

Gravel 1-2"
20% ASA

2.5' falls

6' drop in small steps
Thick log jam

Rubble & coarse gravel
5% ASA

100' cliff

0% ASA

Scoured to bedrock.

Probable barrier to
pinks - none seen
above here ...

Pool
30% ASA

3' falls

1 fry

Several trees
cut.

60' rock cliff
feldspar granit

Barrier

Bedrock rapids

10 pinks

Pool

15% ASA
Station #1

Pool

TREELINE

- 357

ROCK



Name Fitzgibbon Cove Catalog No. 101-75-72
Latitude N 55° 58' 52" WR No. 42A
Longitude W 131° 10' 29" K No. 46A
Geodetic Map No. Ketchikan D-4 Work Area Ketchikan
Location Dehm Canal, Westside Fitzgibbon Cove Watershed Length 4.2 miles (both tribs.)
Drainage Area of Watershed 4.8 sq. miles
Water Supply Type Precipitation, lake on right fork.

Trails & Survey Routes Stream bed has considerable debris but can be walked at normal water levels.

Aerial Survey Notes Stream is small and has too much overhead cover.

Anchorage Good anchorage in the inner cove.

Tide Stage When Surveyed Half tide.

FISHERY RESOURCES

Commercial Fisheries Small potential stream due to limited spawning and rearing facilities. There may be rearing area in the lake for sockeye and cohos.

Escapement Previous escapements unknown. 9-10-75=10 live & 7 dead pinks.

Spawning area: 167 m² (900'x20'x10% ASA) <1000 in Fed. Cat.

Species Composition The major species is pink salmon.

Timing September

Schooling areas Off the mouth.

Shellfish Potential Clams and crabs on delta and in the bay.

Sport Fisheries Trout reported in creek and lake.

Land Use at Present None

History of Land Use Unknown

Rehabilitation Potential In several places windfall in stream may be barriers to pinks in lower section.

Soils Much granite (feldspar) stream scouring to bedrock and rotten bedrock cliffs along right bank.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	2
	Number of droppings	1
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	1 adult
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	1
Tide flats -	Estimate length along beach	0
	Estimate depth out from beach	0
	Eel grass present on what percent of flats	0

STREAM INVENTORY FORM

Name: Fitsgibbon Cove

Number: 101-75-72

Observers: R.Larson, Ward

Date: 9-10-75

Temperature: 52°

Weather: Clear

Station No.

1

Pool Size/Type

3/1

Riffle Type
Width-Depth

21'W

Pool Riffle
Frequency

3

Bottom Type
(Riffle)

5/4

Color/Turbidity

2/1

Velocity

2

Flow (C.F.S.)

36

Temp. (°F.)

pH

4.5

Fry Abundance

Benthos
Sample No.

Higher Plant
Class

1

Aquatic Veg.
Density

3

Ident.

(1) Mosses

(2) Algae

1

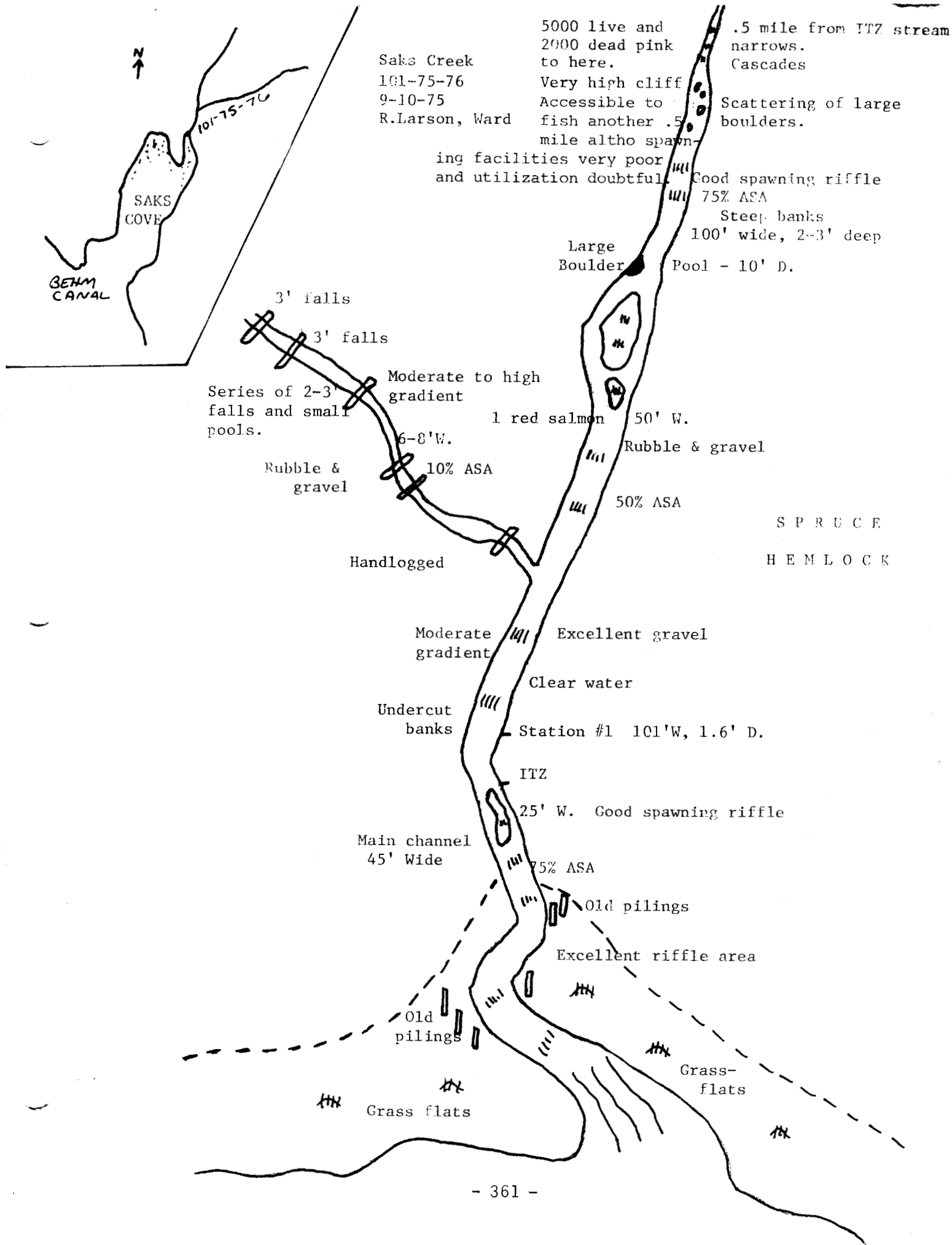
General Remarks (rehab., land use, barriers, log jams, etc.): Much windfall debris in creek some of which may be barriers to fish passage at low water.

PEAK ESCAPEMENT RECORD

Fitzgibbon Cove
101-75-72

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
8-16-63	10			Visibility fair.
8-12-64				Stream very small.
8-16-65				Visibility good
7-18-66				Visibility good
9-9-75				7 dead pink. 3 at I.T.

- 360 -



Name Saks Creek Catalog No. 101-75-76
Latitude N 55° 56' 08" WR No. 42
Longitude W 131° 07' 05" K No. 46
Geodetic Map No. Ketchikan D-4 Work Area Ketchikan
Location E. Behm Canal. Saks Cove S. head Watershed Length 5.5 Miles
Drainage Area of Watershed 26 sq. miles
Water Supply Type Two lakes drain into this stream, Saks Lake and a smaller unnamed lake.
Trails & Survey Routes This is a fairly easy stream to walk. There are several game trails.
Aerial Survey Notes This stream is wide and the water is clear enough to allow sufficient visibility for aerial survey.
Anchorage Good anchorage north of mouth off sand beach.
Tide Stage When Surveyed 1st half of flood.
FISHERY RESOURCES
Commercial Fisheries Pink, chum, coho
Escapement High escapement 30,000 pink, 500 chum in September 1943. Spawning area: 10451 m² (2500'L x 75' W x 60% ASA)
Species Composition Unknown but mostly pink
Timing Middle - August, September.
Schooling areas There are schooling areas from the mid-tide mark to the high tide mark, concentrated mainly in the shallow pools around the bend
Shellfish Potential There is reported to be good dungeness crab fishing in Saks Cove.
Sport Fisheries Cuththroat and rainbow trout.
Land Use at Present None
History of Land Use The area was handlogged as evidenced by many large, notched decaying stumps along the creek banks.
Rehabilitation Potential None needed to increase salmon production potential.
Soils Soils are stable through steep banks along certain portions of the creek could lead to some slide activity.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	50
	Number of droppings	15
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	2
Bald Eagles-	Number seen along creek	2
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	400 yds
	Estimate depth out from beach	40 yds
	Eel grass present on what percent of flats	5%

STREAM INVENTORY FORM

Name: Saks Cove Creek

Number: 101-75-76

Observers: R. Larson, D. Ward

Date: 9-10-75

Temperature: 58°

Weather: Clear

Station No.	1														
Pool Size/Type	1/2														
Riffle Type Width-Depth	101'W														
Pool Riffle Frequency	3														
Bottom Type (Riffle)	4														
Color/Turbidity	1/1														
Velocity	2														
Flow (C.F.S.)	306														
Temp. (°F.)															
pH	5														
Fry Abundance															
Benthos Sample No.															
Higher Plant Class	1														
Aquatic Veg. Density	3														
Ident. (1) Mosses (2) Algae	2														

General Remarks (rehab., land use, barriers, log jams, etc.):

(

(

PEAK ESCAPEMENT RECORD

Saks Creek
101-75-76

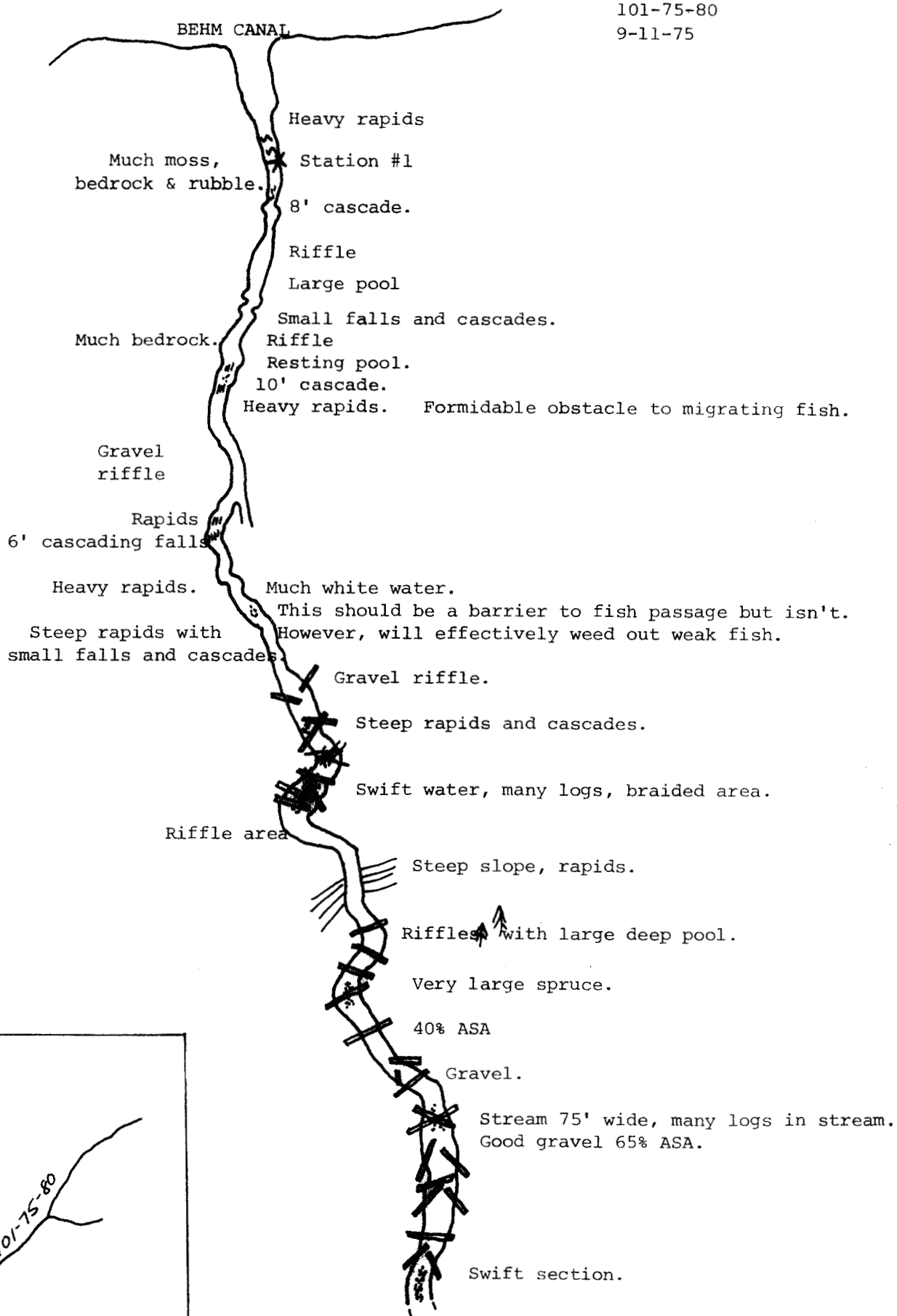
DATE	PINK	CHUM	OTHER SPECIES	REMARKS
8-15-33				5-6000 fish in stream.
9-16-38	3,000			
9-21-42	30,000	500		Excellent.
9-16-43	7,000	1,000		
9-27-47	300	150		3 times more dead than live.
7-17-49		25		Only survey.
8-11-50	4,500	825		Good showing. 25 dead pink, 100 dead chum.
9-4-51	11,000	325	20 coho	4,600 above marker. 2,700 dead pinks- 20 dead chum.
8-11-52	5,500	180		50 dead pinks, few dead chum.
8-19-53	3,900	1,600		
8-23-54	11,000			
8-23-55	6,000			1000 chum 8-12.
8-24-56	13,000			3,000 chum 8-17.
8-11-57	17,500			
7-25-60	300	100		All schooled, none spawning.
8-2-61	2,100			Some spawning.
7-31-62	3,900			Vis. excellent.
7-29-63	800	3		Vis. fair.
8-18-64	6,000	1,000		All spawning, few dead.
8-16-65	700			Vis. fair to excellent.
8-24-66	6,100			Vis. fair. Many dead, fish spawn.
8-7-67		60		Vis. excellent in creek. 1 ball @ mouth.
7-29-68	8,300	800		Visibility excellent.
8-6-69	50		15 kings	Visibility fair.
8-4-70	6,400	1,100		I.T. included in stream count.

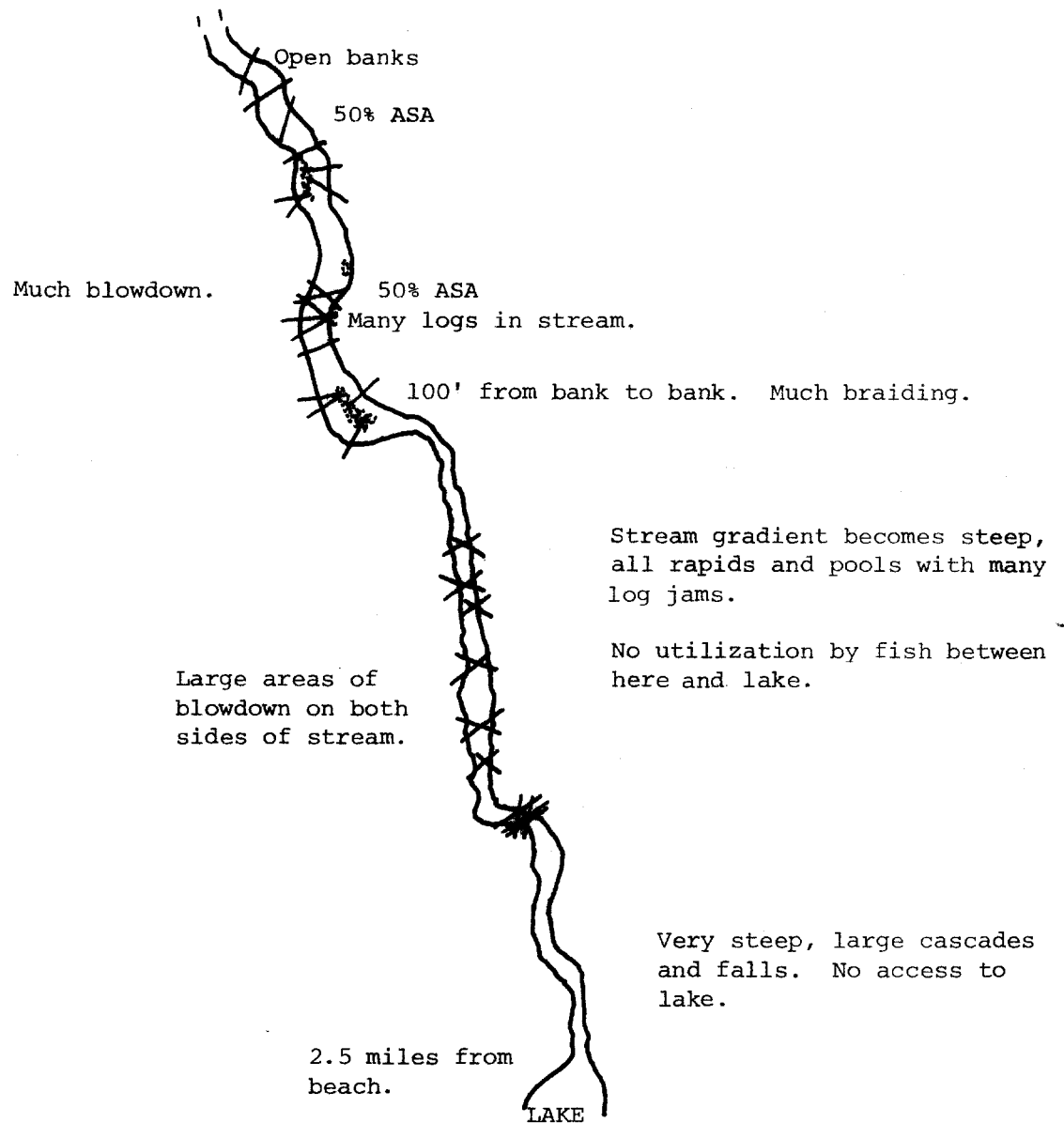
PEAK ESCAPEMENT RECORD

Saks Creek
101-75-76

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
8-12-71	600	100		Visibility fair.
7-31-72	9,400	few 100		6 balls in bay. 1000 @ mouth. Visibility good.
8-1-73	200			3 balls @ mouth. Vis. excellent
8-15-74	8,000			Visibility good.
8-18-75	16,300			500 dead. Vis. excellent. 1000 @ I.T. 1 school at mouth.
- 365 -				

Robinson Creek
101-75-80
9-11-75





Name: Robinson Creek Catalog No.: 101-75-80
Latitude: 55 43' 10" WR No.: 41
Longitude: 131 04' 29" K No.: 45
Geodetic Map No.: Ketchikan D-4 Work Area: Ketchikan
Location: E. shore Behm Canal 6 miles Watershed Length: 6 miles
NW of Chickamin River. Drainage Area: 20 sq. miles
Water Supply Type: Water supplied by snowfields, lake, and precipitation. Lake outlet is 2 miles upstream is 1.3 mi. long and has average width of .2 miles.
Trails & Survey Routes: Trapper and game trail on south side of stream, otherwise walking appears to be difficult in streambed.
Aerial Survey Notes: This stream has limited visibility from the air. Steep valley sides and canopy covering make aerial survey difficult.
Anchorage: Temporary anchorage in close to south shore of cove, 100 feet off bedrock bank.
Tide Stage when Surveyed: High tide.

FISHERY RESOURCES

Commercial Fisheries: Pink, chum, coho. Accessibility to upstream areas difficult.
Escapement: High - 80,500 pink 8-8-49. Since 1961, 10 yr.ave. 870.
Spawning area = 17,560 m² (4500'x70'x60% ASA)
Species Composition: Mostly pink.
Timing: Early - July, August.
Schooling Areas: Salmon school in mouth of stream and in the pool below the high tide mark.
Shellfish Potential: Very limited.
Sport Fisheries: Trout in lake.
Land Use at Present: None
History of Land Use: This area was handlogged in the past.
Rehabilitation Potential: No rehabilitation needed to increase salmon production. Cascades and falls may be difficult to ladder.
Soils: Steep, glacial valley sides create potential slide hazard. Soil stability is marginal.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	<u>many</u>
	Number of droppings	<u>1 black bear sighted.</u>
Geese -----	Number seen on tide flats	
	Number seen up creek	
	Number of broods seen	
Mallards ---	Number seen on tide flats	
	Number seen up creek	
	Number of broods seen	
Mergansers -	Number of broods seen	<u>1</u>
Bald Eagles-	Number seen along creek	
	Number of nests seen and location	<u>1</u>
Seals -----	Number seen at mouth	
Tide flats -	Estimate length along beach	
	Estimate depth out from beach	
	Eel grass present on what percent of flats	

STREAM INVENTORY FORM

Name: Robinson Creek

Number: 101-75-80

Observers: R. Larson, Ward

Date: 9-11-75

Temperature: 72

Weather: Clear

Station No.

1

Pool Size/Type

1/1

Riffle Type
Width-Depth

38'W

Pool Riffle
Frequency

3

Bottom Type
(Riffle)

5/4

Color/Turbidity

1/1

Velocity

2

Flow (C.F.S.)

128

Temp. (°F.)

48

pH

5

Fry Abundance

Benthos

Sample No.

Higher Plant
Class

1

Aquatic Veg.
Density

1

Ident.

(1) Mosses

(2) Algae

1

General Remarks (rehab., land use, barriers, log jams, etc.): Handlogged in the past.

PEAK ESCAPEMENT RECORD

Robinson Creek
101-75-80

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
8-16-33	20,000			
8-16-37	32,000	8,000		
9-6-38	1,000			
9-19-40				Only survey, no fish seen.
8-2-41	50,000			
9-21-42	1,000	50		
9-16-43	5,000	1,000		Fair. Indications of good early run.
9-12-47	6,000			
8-12-48				Fair. Some chum and pink.
8-8-49	80,000			500 dead pink, 3 dead chum.
8-10-50	5,000	1,100		250 dead chum.
8-1-51	50,000	150		Extreme crowding. 400 dead pink.
8-1-52	4,800	400		
8-2-53	3,550	440		
8-5-54	4,000	3,500		
8-2-55	19,000			
9-12-56	21	3		
8-11-57	5,000		150 red on 7-28.	
8-9-60				Some present.
7-14-61				Vis. poor. Fish are present.
8-17-62				1 jump. No survey.
7-16-63	200?			Vis. excellent. 1 seal.
8-4-64				Visibility poor.
8-16-65				Visibility good.
7-31-67		present		No fish off mouth. Vis. fair.
8-12-71	5,000			Visibility poor.
- 370 -				

PEAK ESCAPEMENT RECORD

Robinson Creek

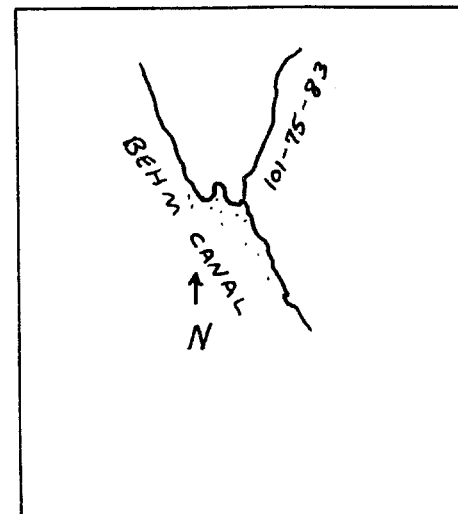
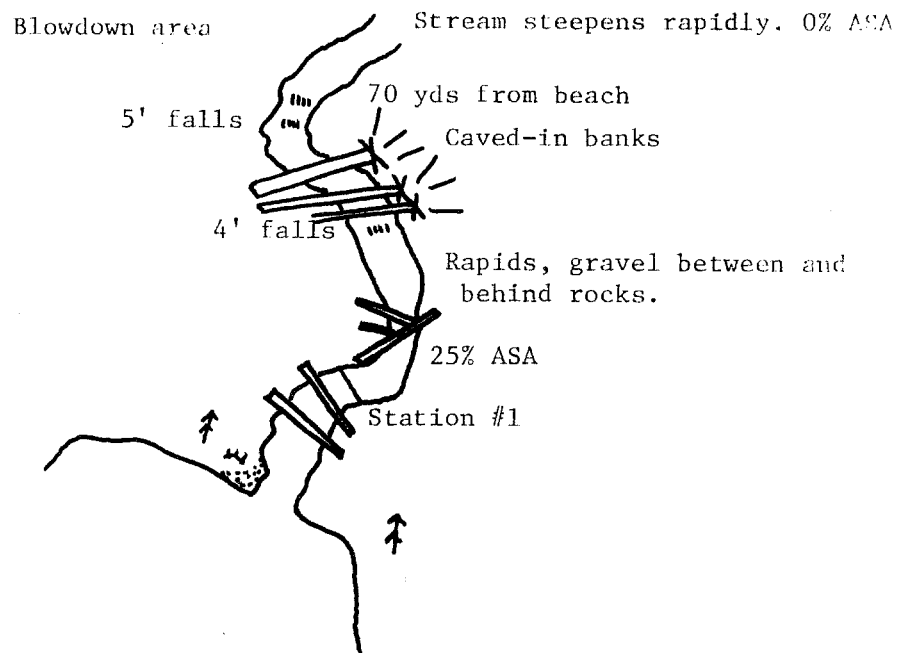
101-75-80

101-75-80				
DATE	PINK	CHUM	OTHER SPECIES	REMARKS
7-31-72				1000 I.T., 4 balls @ mouth. Visibility fair.
8-15-73	15,000			Water high and dark.
7-20-74				50 chums @ mouth. Vis. good.
7-28-75				25,000 @ mouth & I.T.

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Hat Creek
101-75-83
9-11-75
R. Larson, D. Ward

This is a small steep gradient stream with many large rocks and considerable windfall in the streambed.



Name Hat Creek Catalog No. 101-75-83
 Latitude N 55° 51' 58" WR No. _____
 Longitude W 131° 03' 19" K No. _____
 Geodetic Map No. Ketchikan D-4 Work Area Ketchikan
 Location E. side Behm Canal 5.9 mi SW of Metchikan Watershed Length 2 miles
 Drainage Area of Watershed 2.5 sq. mi
 Water Supply Type Precipitation fed.

Trails & Survey Routes Difficult walking on stream bed.

Aerial Survey Notes This stream is too short and narrow to make aerial survey feasible.

Anchorage Temporary anchorage off mouth of Robinson Creek 1.5 miles north

Tide Stage When Surveyed High

FISHERY RESOURCES

Commercial Fisheries Pink

Escapement Unknown. No historical record. 70 pinks 9-11-75

(210'L x 10'W x 25% ASA) Spawning area = 49 m²

Species Composition Unknown. Probably all pinks.

Timing Middle - August, September.

Schooling areas None noted.

Shellfish Potential Unknown

Sport Fisheries Unknown

Land Use at Present None

History of Land Use Unknown

Rehabilitation Potential No rehabilitation needed to increase salmon production potential.

Soils Sils appear to be generally stable although several trees have collapsed the banks into the stream at the beginning of the steep section.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	3
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	2
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	30 yds
	Estimate depth out from beach	20 yds
	Eel grass present on what percent of flats	0

STREAM INVENTORY FORM

Observers: R. Larson, Ward

Date: 9-11-75

Temperature: 69°

Weather: Clear

Name: Hat Creek

Number: 101-75-83

Station No.	1														
Pool Size/Type	3/2														
Riffle Type Width-Depth	18'W .89'D														
Pool Riffle Frequency	3														
Bottom Type (Riffle)	5/4														
Color/Turbidity	1/1														
Velocity	2														
Flow (C.F.S.)	23														
Temp. (°F.)															
pH	5														
Fry Abundance															
Benthos Sample No.															
Higher Plant Class	1														
Aquatic Veg. Density Ident. (1) Mosses (2) Algae	3														

General Remarks (rehab., land use, barriers, log jams, etc.):

PEAK ESCAPEMENT RECORD

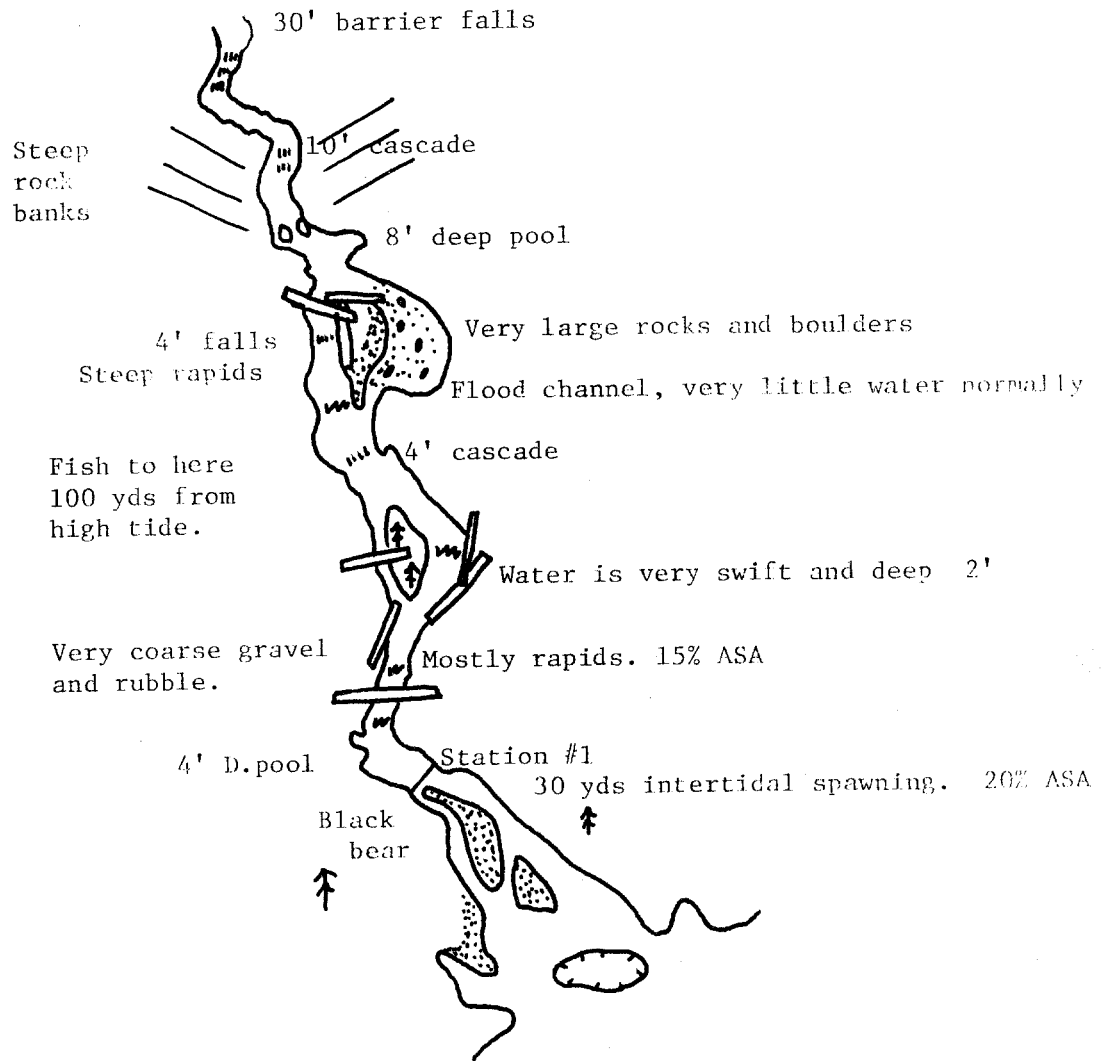
Hat Creek

101-75-83

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
9-11-75	40			20 @ mouth, 10 @ I.T.

- 375 -

Indian Creek
101-75-85
9-11-75
R. Larson, R. Ward



Name Indian Creek Catalog No. 101-75-85
Latitude N 55° 48' 38" WR No. _____
Longitude W 131° 03' 37" K No. _____
Geodetic Map No. Ketchikan D-4 Work Area Ketchikan
Location E. Behm C. 2.5 mi N. Portage Cove Watershed Length 15 miles including 2 main
Drainage Area of Watershed 17 sq. miles tribs.
Water Supply Type Three small lakes, muskeg area, and glacial area

Trails & Survey Routes Fairly easy walking in stream bed.

Aerial Survey Notes This stream is too short to make aerial survey feasible.

Anchorage Nearest anchorage is in small bight at southern entrance to Portage Cove but even that is at best a temporary anchorage.

Tide Stage When Surveyed 1st half of flood.

FISHERY RESOURCES

Commercial Fisheries Pink

Escapement Unknown. No historical record.

(750'L x 40'W x 15% ASA) Spawning area = 418 m²

Species Composition Unknown, probably all pink

Timing Middle - Aug., Sept.

Schooling areas None noted.

Shellfish Potential Unknown - probably very limited.

Sport Fisheries Probably Dolly Varden

Land Use at Present None

History of Land Use Unknown

Rehabilitation Potential None needed to increase salmon production potential.

Soils Soils appear to be stable but steep banks tend to create a potential slide hazard.

GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	25
	Number of droppings	15
	1 black bear sighted	
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	70 yds.
	Estimate depth out from beach	30 yds.
	Eel grass present on what percent of flats	0

STREAM INVENTORY FORM

Observers: R.Larson, Ward

Date: 9-11-75

Name Indian Creek

Temperature: 54°

Number: 101-75-85

Weather: Clear

Station No.

1

Pool Size/Type

2/1

Riffle Type
Width-Depth

63'W

Pool Riffle
Frequency

3

Bottom Type
(Riffle)

5/4

Color/Turbidity

1/1

Velocity

2

Flow (C.F.S.)

154

Temp. (°F.)

49°

pH

4.5

Fry Abundance

Benthos
Sample No.

Higher Plant
Class

1

Aquatic Veg.
Density
Ident.

3

(1) Mosses
(2) Algae

1

General Remarks (rehab., land use, barriers, log jams, etc.):

PEAK ESCAPEMENT RECORD

Indian Creek
101-75-85

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
10-1-47				None observed.
9-15-51	150			No fresh fish. 300 dead pinks.
9-3-52	20			
8-1-53	7	5 chum 8-5		
9-11-75	75			100 dead pink. 75 @ I.T.

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ACKNOWLEDGMENTS

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